



Bioreagents & Bioanalytical tools

SPI-Bio™, MS2Plex®, Cayman Chemical, @rtMolecule and IBA

Overview

Dear Colleagues,

This new edition of our catalogue is a milestone in the development of Bertin Pharma since it is the first entitled Bertin Pharma.

Bertin Pharma has brought together the whole activities of SPI-Bio™ and its subsidiaries. Its name reflects the filiation with Bertin Technologies – our mother company.

More than a change of name or logo, it is the birth of a **European leader** company on the pharmaceutical market. Bertin Pharma offers a **full** and **integrated package** of products and studies strongly dedicated to analysis in biological matrices of endogenous or exogenous compounds from various origins: either chemical, peptidic, proteic, DNA or RNA.

With this new dimension and dynamism created by our new structure, Bertin Pharma includes over 100 employees, chemists, biochemists, immunoanalysts, pharmacists and technicians. The complementary expertise, innovative technologies, dedicated technical platforms and resources within quality standards environment enable us to develop, implement and validate analytical methods as diverse as biological, immunological or physicochemical.

Always at the forefront of innovation and after launching on the market products incorporating in their time innovative technologies (Acetylcholinesterase tracer for EIA, Engineering Yeast for human cytochrome P450), this catalogue offers a **wide** and **unique range of analytical standards** for mass spectrometry (@rtMolecule), new **assays for biomarker** Immunoassays (SPI-Bio™) but also a **unique & exclusive range of LC-MS² membrane protein quantification kits** under the brand name: **MS2Plex®**.

MS2Plex® coming from an original technology, developed by Professor Tetsuya Terasaki from Tohoku University, Sendai, Japan is a significant breakthrough in membrane protein analysis. This Quantitative Targeted Absolute Proteomics (QTAP) is based on the identification and separation of protein digests by liquid chromatography linked tandem mass spectrometry with multiple reaction monitoring. Bertin Pharma has signed a **worldwide exclusive license** for this patented technology.

To better serve you, we aim to design our products and reagents to address your needs on the expected performance in terms of a possible range of use, but also on operational conditions of use & regulations. Thanks to our production processes and quality controls, we provide you with products with compliance to specifications. Our technical support & science teams are available to help you assess their relevance depending on your needs, to specify the conditions of application and their fields of use. Finally, our researchers are ready to provide you with the necessary support by going, if needed, in your laboratories to validate your operating conditions and to solve possible problems.

Thank you for your long-standing confidence in our products and services. We are proud to serve you on a daily basis and we wish you success in your continued research work.

Best regards,

Xavier Morge
Managing Director

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Ordering information & sales conditions

Any order placed by the customer is subject to the sales conditions hereafter. Our general terms and conditions of sales cancel and supersede the general terms and conditions of purchase of the customer.

► Order

Orders are accepted either by fax, e-mail or postal mail. We advise you to confirm your order at the latest on Friday morning to be delivered by the end of the following week after. Order is deemed to be accepted when Bertin Pharma has sent a written acceptance to the purchaser.

► Order contact

Please address all your correspondence to:

Bertin Pharma – Bioreagent Department

Parc d'Activités du Pas du Lac

10 bis avenue Ampère

F-78180 Montigny-le-Bretonneux Cedex - France

Phone: +33 139 306 036 - Fax: +33 139 306 299 - Email: order@bertinpharma.com

www.bertinpharma.com

► Order information

Please include in your purchase order form:

- ▷ Your purchase order number
- ▷ Catalogue number, product description, size, quantity required
- ▷ Shipping & billing addresses
- ▷ VAT number (for European Union countries only)
- ▷ Name of the end user for good remittance when delivered (and phone number or e-mail)

► Product specifications and uses

The products in this catalogue are for research use only. They are not intended for human diagnostic or veterinary uses. Specific sales conditions apply to DEA or AFSSAPS regulated and toxic substances. Please contact us for additional information.

All technical documentation and MSDS are available for all our products. Please call our Bioreagent Department or download them on our website at www.bertinpharma.com.

► Prices

The present catalogue is intended for use with a separate price list. Please contact either Bertin Pharma or your local distributor for current price list. Prices are subject to change without any prior notice.

Prices are deemed to be ExWorks Montigny-le-Bretonneux – France (Incoterm 2010 ICC). All taxes and supplementary costs (packaging, transport, bank transfer administrative fees, ...) will be charged to the purchaser.

Discounts on selected products are available for large and/or bulk orders.

► Terms of payment

Payment are to be made in Euro, 30 days net.

Bank fees and wire transfer fees are not to be deducted from the invoice amount.

Banque PALATINE - 13, rue Colbert - 78000 VERSAILLES

Bank code: 40978

Agency: 00068

Account n°: 0408947J001

Key code: 53

Domiciliation: SUCC. VERSAILLES

IBAN: FR 59 4097 8000 6804 0894 7J00 153

BIC/Swift: BSPFFRPPXXX

Ordering information and sales conditions

For payments not received by the agreed periods, the sums due will be fully and automatically subject to interest of 1.5% times the legal month rate. Moreover, Bertin Pharma will be entitled to cancel or postpone future deliveries.

► Shipping

Unless indicated on the purchase order, shipping costs are prepaid by Bertin Pharma and billed to the buyer. Please enquire when ordering for an estimate of the shipping costs.

We commit ourselves to ship any complete order within 5 working days. The products are packaged in boxes adapted to their stability (i.e. room temperature, wet ice or dry ice).

All operations upon release from Bertin Pharma's premises, and notably those of transporting and handling will be to the account, charge, risk and at the purchaser's own risk. It is the purchaser's responsibility to verify deliveries on arrival. Packaging and products should be inspected immediately upon receipt. Notification of damage, shortage, defects or incorrect shipping should be reported immediately by e-mail or fax to the appropriate person.

► Return

Products cannot be returned without any prior authorisation and instructions from our Bioreagent Department. You can reach them either by fax, post or e-mail.

► Resale prohibited

In the absence of an express written agreement to the contrary, all the products are sold by Bertin Pharma for the exclusive use of the purchaser and are not to be resold.

► Technical Assistance

Technical assistance is available from 9.00 am to 6.00 pm, Monday to Friday (Paris local time).

Please contact our Bioreagent Department by phone (+33 139 306 036)

or e-mail at bioreagent@bertinpharma.com.

Do not forget to mention any necessary information (catalogue and batch number, raw data, ...) for an appropriate and prompt answer.

Technical assistance is provided without charge, in good faith but without responsibility.

► Warranty

Bertin Pharma warrants that products meet the specifications listed in the catalogue at the time of shipment. Should any product fail to perform as warranted, upon notification, Bertin Pharma will promptly replace it, free of charge. Bertin Pharma's obligation and purchaser's sole remedy are limited to such replacement of the product or, according to Bertin Pharma's opinion to the refund of the original purchase price.

Bertin Pharma does not make any other warranty or representation whatsoever whether expressed or implied, with respect to these products. In particular, Bertin Pharma does not make any warranty of suitability, non-infringement, merchantability or fitness for any particular purpose of any product. In no event will Bertin Pharma be liable for incidental, consequential or punitive damages.

► Applicable law and place of jurisdiction

Orders are governed by and construed in accordance with the laws of France.

Application of the Vienna convention is excluded. Any dispute arising out of or in connection with the order which cannot be settled amicably will be submitted to the competent court of the Cour d'appel de Paris which will have exclusive jurisdiction.

► Distribution network

You can purchase our products all over the world either directly from us or from local distributor. Please contact either our Bioreagent Department or visit our website to obtain further details.

Pre-analytical phase

General Information

Introduction

Sample handling has become an essential part in the modern analyst toolbox.

In order to get the most reproducible results, it is critical to take care of the samples from the collection to the first step of the analytical procedure.

Many artefacts may come from collection, storage or preparation of the samples before analysis. It is of importance to set up and validate each of those steps (collection, storage and preparation) in accordance with analytical methods.

Collection and storage shall be defined in order to stabilize the samples while preparation allows, not only, to clean the complex samples from interfering components. Therefore, the global performance of an analytical assay (i.e. increase of the response of the signal, decrease of variability between samples) will significantly increase. Besides, this phase is also essential in terms of sample concentration that permits the detection of low quantities of the targeted compound.

The innovative hereafter tools are intended to answer your needs in terms of sample pre-treatment in order to ensure higher repeatability, sensitivity, specificity, productivity and reliability.

Extraction

Bertin Pharma has developed various EIA kits for different biomarkers, validated in different biological media.

Why is it sometimes recommended to proceed to an extraction step?

- ▶ to eliminate matrix components that may interfere (non specific or related compound interaction)
- ▶ to modify the immunological binding between antigen and antibody,
- ▶ to allow quantification of the molecule with specificity and accuracy,
- ▶ to increase the sensitivity by allowing a concentration step and/or reducing the background noise.

How to know if extraction is required?

for non-specific interference, by performing:

- ▶ dilution test (i.e. assessing if dilution in a buffer changes or not the response measured),
- ▶ parallelism test (i.e. comparing signal obtained in buffer versus biological medium).

for related compound interference, by performing:

- ▶ cross-reaction (i.e. investigating if related compounds are recognised or not by the antibodies),
- ▶ immuno-chromatogram (i.e. using a chromatographic method that separates related compounds and verifying if there is only one peak corresponding to the compound to be assayed).

by understanding the substance mechanism of action or its binding:

- ▶ what is the variation level in physiological or pathological situation?
- ▶ does it bind to a receptor (soluble, or not) or an enzyme?
- ▶ does it bind to a protein, if yes to which one? With which binding affinity?
- ▶ etc.

See on the opposite page an overview of different types of extractions, which may be necessary when using our kits.

General Information

The following data are available for the SPI-Bio™ assay kits. This information is not exhaustive, i.e. other extraction procedures may be used even if they are not hereinafter described. Subject to your own use, specific extraction method may be required to obtain appropriate results.

For MS2Plex® assay kits, please refer to the instruction manuals for sample treatment.

Biomarker	Plasma / Serum	Urine	Culture supernatant	Other Media
AcSDKP	Liquid-liquid extraction with methanol	≥ 1/5 dilution in Buffer	NDA	Extraction with methanol
Human Adiponectin	1/30 dilution in Buffer	NDA	NDA	NDA
Human Adiponectin HS	1/300 dilution in Buffer	1/3 dilution in Buffer	NE	1/3 dilution in Buffer for breast milk, 1/3 for CSF, 1/100 for synovial fluid
Mouse Adiponectin	1/10 000 dilution in Buffer	NDA	NDA	NDA
Human AFABP	1/10 dilution in Buffer	1/2 dilution in Buffer	NE	Extraction with detergent
Rat Albumin HS	NDA	NE	NDA	NDA
Angiotensin II	Blood collection with #D05006 Extraction with phenyl cartridge #D30004	NDA	NE	NDA
Rat Atriopeptin	Extraction with C-18 RPC #D30005	NDA	NDA	Extraction with 1M acetic acid
Rat CGRP	NE (when using free plasma with #A19482) Otherwise extraction with C-18 RPC #D30005	NDA	NDA	≥ 1/20 dilution in Buffer for CSF Extraction in 2N acetic acid for other nervous tissues
Human CGRP	Extraction with C-18 RPC #D30005	NDA	NDA	≥ 1/20 dilution in Buffer for CSF samples Extraction in 2N acetic acid for other nervous tissues
Human or Rat Acylated Ghrelin	Blood collection with #D31009 ≥ 1/5 dilution in Buffer	NDA	NDA	NDA
Human or Rat Non Acylated Ghrelin	≥ 1/10 dilution in Buffer	NDA	NDA	NDA
Human GFAP	1/3 dilution in Buffer	NDA	NE	Extraction with detergent
Rat Growth Hormone	NE	NDA	NE	NDA
Histamine	NE	NE	NE	Extraction with 0.1M perchloric acid
Mouse or Rat Insulin	NE	NE	NDA	NDA
Human Leptin	1/3 dilution in Buffer	1/2 dilution in Buffer	1/3 dilution in Buffer	NDA
Human Leptin Receptor	1/3 dilution in Buffer	NDA	1/3 dilution in Buffer	NDA
Mouse/Rat Leptin	1/120 dilution in Buffer	NDA	NE	NDA
Prion	NDA	NDA	NDA	Extraction with specific buffer
Rat Prolactin	NE	NE	NE	NDA
Human Resistin	1/3 dilution in Buffer	NDA	NE	1/3 dilution in Buffer for synovial fluid
Mouse Resistin	1/100 dilution in Buffer	NDA	NE	NDA
Rat Resistin	1/20 Dilution in Buffer	NDA	NE	NDA

HS: High Sensitivity; NDA: No Data Available; NE: No Extraction required; RPC: Reverse Phase Column; CSF: CerebroSpinal Fluid

Sampling / Extraction

Sampling

At early stage after collection, several events may affect the concentration of the targeted compound. In order to fix the concentration as close as possible to the physiological concentrations, Bertin Pharma has developed a range of solutions ranking from inhibitor cocktail to sampling tubes. Bertin Pharma is also able to produce customised sampling tubes for your specific compounds.

Angiotensin II D05006

Inhibition Cocktail

In order to fix physiological concentration of Angiotensin II

- > Size: q.s.p. for 10, 50 or 200 mL of blood
- > Sample volume: 10, 50, 200 mL
- > Stability: 12 months
- > Storage: -80°C
- > Shipping: dry ice

Sampling Tubes D31008

with Indomethacin

In order to fix physiological concentration of PGE2, Thromboxane B2, 2,3-dinor Thromboxane B2, 11-dehydro Thromboxane B2

- > Size: by 35 or 100 units
- > Sample volume: 1 mL
- > Stability: 12 months
- > Storage: -20°C
- > Shipping: dry ice

Extraction

CGRP A19482

Affinity Sorbent

CGRP affinity sorbent contains immobilised mouse monoclonal antibody anti-CGRP on a resin.

- > Size: 1 mL
- > Sample volume: up to 20 mL
- > Stability: 2 years
- > Storage: +4°C
- > Shipping: wet ice

Oasis HLB D30005

Extraction Cartridges (C18)

- > Size: 10 units
- > Stability: 2 years
- > Storage: RT
- > Shipping: RT

Sampling Tubes D31009

with PHMB

In order to fix physiological concentration of human or rat Acylated Ghrelin

- > Size: by 35 or 100 units
- > Sample volume: 1 mL
- > Stability: 12 months
- > Storage: RT
- > Shipping: RT

Sampling Tubes D31007

with BHT

In order to fix physiological concentration of 8-Isoprostane

- > Size: by 35 or 100 units
- > Sample volume: 1 mL
- > Stability: 12 months
- > Storage: RT
- > Shipping: RT

Phenyl Cartridges D30004

500 mg / 3 mL

- > Size: 25 units
- > Stability: 2 years
- > Storage: RT
- > Shipping: RT

* Updated information available upon request

Sampling / Extraction

Nitrotyrosine Affinity Sorbent 389549

The Nitrotyrosine affinity sorbent contains immobilised mouse monoclonal antibody anti-Nitrotyrosine conjugated to protein A agarose.

- > Size: 200 µg IgG per 200 µL agarose
- > Sample volume: batch dependant
- > Stability: 1 year
- > Storage: +4°C
- > Shipping: wet ice

Ultra Pure Water EIA Grade A07001

- > Stability: 6 months (or 12 months)*
- > Storage: room temperature in a dark cabinet
- > Shipping: RT
- > Size: 1 L / 4x1L / 12x1L
- > Purity: 18.2 MΩ.cm

Ultra Pure Water is deionised water, free of organic contaminants trace. It is produced using a reverse osmosis, ion exchange and organic scavenging to ensure the highest level of purity. It is suitable for preparation of all EIA buffers and reagents provided in our EIA kits.

8-Isoprostane Affinity Column 400058 & 400059

- > Size: 4 mL (#400058) / 20 mL (#400059)
4 mL column contains 0.5 mL of sorbent and 20 mL column contains 1.0 mL of sorbent
- > Sample size: up to 4 mL / 20 mL
- > Stability: 2 years
- > Storage: +4°C
- > Shipping: wet ice

8-Isoprostane Affinity Purification Kit 10367 & 10368

- > Size: 4 mL (#10367) / 20 mL (#10368) 4 mL column contains 0.5 mL of sorbent and 20 mL column contains 1.0 mL of sorbent
- > Sample size: up to 4 mL / 20 mL
- > Stability: 2 years
- > Storage: +4°C
- > Shipping: wet ice

sPLA2 (human Type IIA) Affinity Sorbent 485009

The sPLA2 affinity sorbent contains immobilised mouse monoclonal antibody anti-sPLA2 conjugated to Sepharose 4B.

- > Size: 1 mL
- > Binding capacity: 4 µg of sPLA2
- > Stability: 1 year
- > Storage: +4°C
- > Shipping: wet ice

Prostaglandin E2 Affinity Column 400056 & 400057

- > Size: 4 mL (400056) / 20 mL (400057) -
Each 4 mL column contains 0.5 mL of sorbent and each 20 mL column contains 1.0 mL of sorbent
- > Sample size: up to 4 mL / 20 mL
- > Stability: 2 years
- > Storage: +4°C
- > Shipping: wet ice

PGE2 Affinity Purification Kit 500450 & 514018

- > Size: 4 mL (500450) / 20 mL (514018) 4 mL column contains 0.5 mL of sorbent and each 20 mL column contains 1.0 mL of sorbent
- > Sample size: up to 4 mL / 20 mL
- > Stability: 2 years
- > Storage: +4°C
- > Shipping: wet ice

* Updated information available upon request

Precellys & Coriolis disposables

Precellys & Coriolis disposables

Precellys sample preparation

The bead-beater Precellys®24 is dedicated to the grinding, lysis, and homogenization of biological samples prior to DNA, RNA, and proteins extractions. Automation with Precellys®24 gives standard sample preparation fast and efficient biological results. The cooling option Cryolys allows extraction of stable RNA and native-state proteins by keeping the samples at optimal temperature.

Precellys lysing kits are tubes prefilled with beads designed for Precellys® 24 to prepare samples not only from soft to hard tissues but also from 1 mg to 5 000 mg.

Each reference includes 50 preparations and is to be stored at RT.

Homogenizing kits for Precellys

Tissue Homogenizing CKMix Kit (2 mL)

D34010

- > Sample size: 30 mg to 1 g / 200 µL to 1.6 mL
- > Sample type: animal and plant
- > Beads type: 1.4 & 2.8 ceramic beads

Hard Tissue Homogenizing CK28 Kit (7 mL)

D34012

- > Sample size: 500 mg to 5 000 mg / 200 µL to 6 mL
- > Sample type: animal and plant
- > Beads type: 2.8 ceramic beads

Hard Tissue homogenizing CK28 Kit (2 mL)

D34002

- > Sample size: 30 mg to 1 g / 200 µL to 1.6 mL
- > Sample type: animal and plant
- > Beads type: 2.8 ceramic beads

Soft Tissue homogenizing CK14 Kit (2 mL)

D34003

- > Sample size: 30 mg to 1 g / 200 µL to 1.6 mL
- > Sample type: animal
- > Beads type: 1.4 ceramic beads

Soft Tissue homogenizing CK14 Kit (0.5 mL)

D34004

- > Sample size: 1 mg to 30 mg / 5 µL to 200 µL
- > Sample type: animal and plant
- > Beads type: 1.4 ceramic beads

Hard Tissue Homogenizing CK28-R Kit (2 mL) Reinforced

D34008

- > Sample size: 30 mg to 1 g / 200 µL to 1.6 mL
- > Sample type: animal and plant
- > Beads type: 2.8 ceramic beads



Precellys & Coriolis disposables

Grinding kits for Precellys

Hard Tissue Grinding MK28 Kit (2 mL)

D34001

- > Sample size: 30 mg to 1 g / 200 µL to 1.6 mL
- > Sample type: animal and plant
- > Beads type: 2.8 stainless steal beads

Hard Tissue Grinding MK28-R Kit (2 mL) Reinforced

D34009

- > Sample size: 30 mg to 1 g / 200 µL to 1.6 mL
- > Sample type: animal and plant
- > Beads type: 2.8 stainless steal beads

Lysing kits for Precellys

Tough Micro-organism Lysing VK05 Kit (2 mL)

D34005

- > Sample size: 30 mg to 1 g / 200 µL to 1.6 mL
- > Sample type: micro-organisms
- > Beads type: 0.5 mm glass beads

Tough Micro-organism Lysing VK05 (0,5 mL) Kit

D34006

- > Sample size: 1 mg to 30 mg / 5 µL to 200 µL
- > Sample type: micro-organisms
- > Beads type: 0.5 mm glass beads

Micro-organism Lysing VK01 Kit (2 mL)

D34007

- > Sample size: 30 mg to 1 g / 200 µL to 1.6 mL
- > Sample type: micro-organisms
- > Beads type: 0.1 mm glass beads

Micro-organism Lysing VK01/VK05 Kit (2 mL)

D34014

- > Sample size: 30 mg to 1 g / 200 µL to 1.6 mL
- > Sample type: micro-organisms
- > Beads type: 0.1 & 0.5 mm glass beads

Micro-organism Lysing CK01 Kit (2 mL)

D34015

- > Sample size: 30 mg to 1 g / 200 µL to 1.6 mL
- > Sample type: micro-organisms
- > Beads type: 0.1 mm ceramic beads



Precellys & Coriolis disposables

Coriolis Air sampler

Coriolis μ is based on the cyclonic technology, which concentrates microorganisms in the collection liquid, thanks to a whirling motion. The collection liquid can then be analysed by any molecular-biology based analysis, including PCR. Such analysis gives a result about all biological contamination including viable and non-viable flora in only few hours.

Main characteristics:

- > up to 300L/min
- > up to 10 minutes
- > can work with battery (1 hour of sampling)
- > light and portable
- > sterile consumables
- > easy to operate



Empty Cones and Caps for Coriolis Air Sampler

D34114

- > Size: 50 units / 250 units / 1000 units
- > Stability: 1 year
- > Storage: RT
- > Shipping: RT

Empty Sterile Cones and Caps for Coriolis Air Sampler

D34115

- > Size: 50 units / 250 units / 1000 units
- > Stability: 1 year
- > Storage: RT
- > Shipping: RT

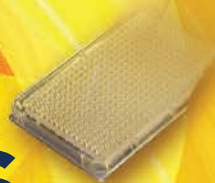
Sterile Collection Liquid Doses (15 mL) for Coriolis Air Sampler

D34117

- > Size: 50 units
- > Stability: 1 year



Assays



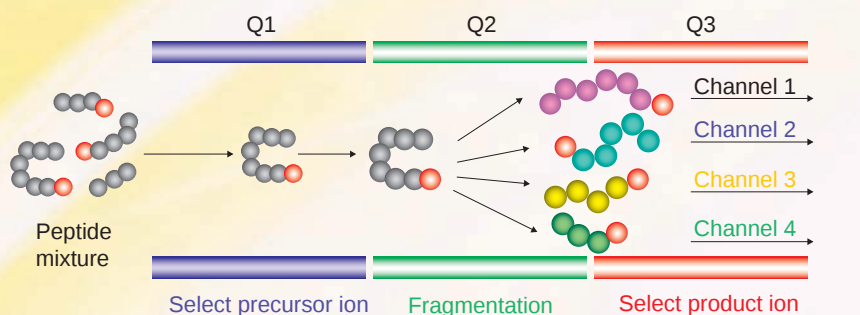
Introduction to membrane protein quantification by LC-MS/MS

“Mastering innovation” is not only the signature of our mother company, it is also our daily work. The last example of this innovative implementation is the license acquired from Proteomedix Frontiers (a spin-off of Tohoku University held by Professor Tetsuya Terasaki) which has developed a technology to measure membrane protein concentration using LC-MS/MS in MRM mode technology.

25 years after AChE (still the most powerful enzyme for EIA), we are now launching a range of kits based on LC-MS/MS technology. For those who know MRM or protein quantification using LC-MS/MS, it might not look like a breakthrough, but for those who have tried it, they know it is.

► Multiple Reaction Monitoring (MRM)

MRM is the scan type with the highest duty cycle and is used for monitoring one or more specific ion transition(s) at high sensitivity. Here, Q1 is set on the specific parent m/z (Q1 is not scanning), the collision energy is set to produce the optimal diagnostic charged fragment of that parent ion, and Q3 is set to the specific m/z of that fragment. Only ions with this exact transition will be detected.



We use MRM scan mode to quantify small molecules, such as drug metabolites. The same principle is applied to peptides produced from enzymatic digestion of proteins. Technological advances now permit multiplexing up to 34 different biomarkers by measuring peptide levels in a range. These assays use electrospray ionisation followed by two stages of mass selection (as illustrated above). Modern triple, quadruple instruments are capable of measuring such many transitions in a single experiment and this technique is hence referred to as Multiple Reaction Monitoring (MRM).

When combined with the appropriate stable isotope-labelled internal standards, the MRM approach provides absolute quantification of the analyte concentration.

► MS2Plex® validation

Having access to a new technology and getting data is not a gage of assay robustness.

One of the great benefits provided by MS2Plex® technology is the validation work performed by Professor Terasaki to ensure robustness, specificity, sensitivity and monitoring of pre-analytical steps yield.

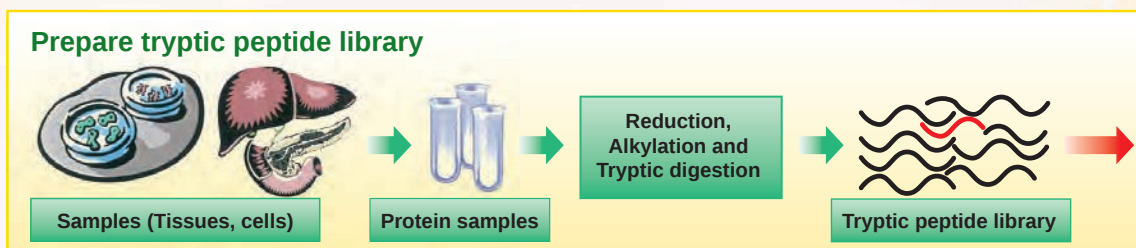
From a theoretical point of view, any kind of matrices can be used. Practically, all the samples need to be cleaned, to get rid of interfering components like phospholipids. An extensive research work has been performed in order to validate sample preparation, and our MS2Plex® assays include the entire key reagents as well as a detailed protocol to extract, digest and measure the targeted protein.

Therefore, Bertin Pharma is offering a first line of MS2Plex® kits for membrane protein quantification focused on drug metabolism. We can design kits or offer our technological platform for any other proteins, biomarkers and biologics.

Introduction to membrane protein quantification by LC-MS/MS

► Sample process workflow

After collecting your sample, membrane should be isolated and proteins solubilised. The proteins are then alkylated, precipitated and digested with trypsin (enzymes are provided in the MS2Plex® kits). These classical steps are checked using a patented Monitoring Protein to check the purification and enzymatic digestion steps.



The peptides generated are mixed with Internal Standards (IS, peptides labelled with ^{13}C or ^{15}N stable isotopes (at a known and precise concentration (identical to the one included into the calibration standards) before injection in the LC-MS/MS system.

The set of standards peptides is also provided to allow the construction of a standard curve, as well as a set of Quality Controls at High ($0.8 \times \text{ULOQ}$), Medium ($0.5 \times \text{ULOQ}^*$) and Low ($2 \times \text{LLOQ}^{**}$) concentration levels.

A Test System Sample provided for injection will permit to verify that the equipment is performing as expected before submitting the analytical batch to the precious samples.

► MS2Plex® benefits

- ▷ A unique & large range for LC-MS/MS membrane protein quantification
- ▷ Highly specific peptides & Internal Standards
- ▷ High sensitivity (fmol/ μg of total protein) & specificity by mass filter
- ▷ Simultaneous quantification: up to 34 proteins in a single run
- ▷ State-of-the art validated assays
- ▷ Numerous peer review scientific publications
- ▷ Enzymes included

Further to the kits already available, more than 300 proteins (from human, mouse, rat or monkey) have been measured using this technology. If you do not find the kit you need, feel free to contact us.

(*) Upper Limit of Quantification

(**) Lower Limit of Quantification

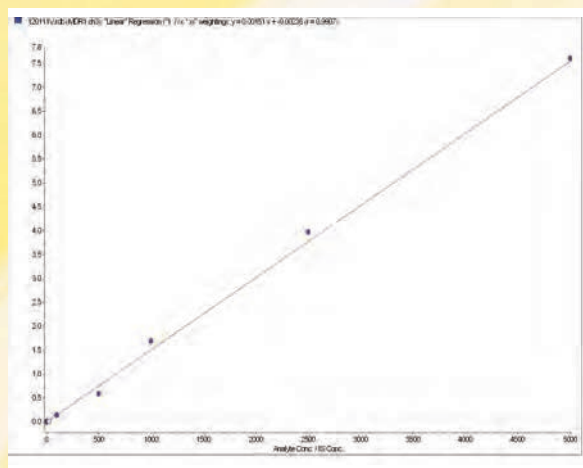
MS2Plex[®] assay kits

► ABC Transporters Assays

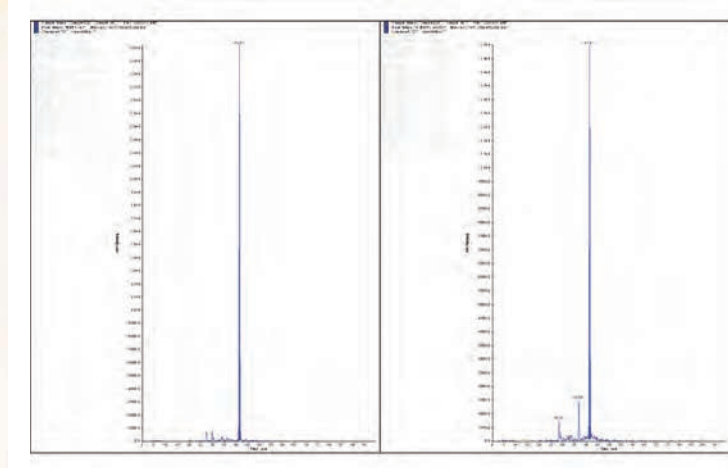
ABC (ATP binding cassette) transporters comprise one of the largest of all paralogous protein families. They are found in all species, play a wide variety of physiological roles and are of very considerable medical and economic importance. In microorganisms, ABC transporters are central to antibiotic and antifungal resistance, while in human many are associated with genetic diseases and cancer drug resistance. The name ABC (ATP Binding Cassette) transporter was coined in 1990, cementing a general recognition of the importance of this evolutionarily related but functionally diverse family of proteins.

They gain particular relevance in ADMET studies.

- | | | | |
|------------------------|---|------------------|------------------------|
| > Application media: | microsomes, hepatocytes, tissue extracts, cell lines, cell membrane fractions | | |
| > Preanalytical phase: | see booklet | | |
| > Stability: | 6 months | > Sample amount: | 50 µg of total protein |
| > Storage: | -80°C | > Shipping: | dry ice |
| > Size: | 24 dtn | | |



Calibration curve obtained for peptide related to MDR1



MDR1 chromatograms

Find below a current list of assay kits. Do not hesitate to contact us for an updated list:

MDR1 (human/monkey) Assay Kit

T05000

- | | | | |
|----------------------------|-------------------------------------|-----------|-------|
| > Specificity: | | > Monkey: | 100 % |
| > Human: | 100 % | | |
| > Mouse: | 0 % | | |
| > Limit of quantification: | 0.15 fmol/µg of total protein | | |
| > Standard curve range: | 0.15 to 30 fmol/µg of total protein | | |

BCRP (human/mouse/monkey) Assay Kit

T05001

- > Specificity:
 - > Human: 100 %
 - > Mouse: 100 %
- > Limit of quantification: 0.75 fmol/μg of total protein
- > Standard curve range: 0.75 to 150 fmol/μg of total protein

► SLC Transporters Assays

SoLute Carrier protein (SLC) is a wide family (51) of transporters facilitating small (endogenous and xenobiotics) molecule transport through plasma and other cellular membrane by diffusion or by co-transport of endogenous (organic) ions to provide the driving force. Certain SLC transporters exhibit efflux properties or are bidirectional, which depends on the concentration gradients of substrate and coupled ions across the membrane. Among SLC super-family, organic anion transporting polypeptides (OATPs), organic anion transporters (OATs) and organic cation transporters (OCTs) subfamilies are functionally well characterized and studied for their implication in physiology, pathophysiology, and pharmacology.

OAT1 (human/mouse/monkey) Assay Kit

T05005

- > Specificity:
 - > Human: 100 %
 - > Mouse: 100 %
- > Limit of quantification: 0.3 fmol/μg of total protein
- > Standard curve range: 0.3 to 30 fmol/μg of total protein

OAT3 (human) Assay Kit

T05006

- > Specificity:
 - > Human: 100 %
 - > Mouse: 0 %
- > Limit of quantification: 0.3 fmol/μg of total protein
- > Standard curve range: 0.3 to 30 fmol/μg of total protein

OATP1B1 (human) Assay Kit

T05002

- > Specificity:
 - > Human: 100 %
 - > Mouse: 0 %
- > Limit of quantification: 0.15 fmol/μg of total protein
- > Standard curve range: 0.15 to 30 fmol/μg of total protein

OATP1B3 (human/monkey) Assay Kit

T05003

- > Specificity:
 - > Human: 100 %
 - > Mouse: 0 %
- > Limit of quantification: 2.25 fmol/μg of total protein
- > Standard curve range: 2.25 to 30 fmol/μg of total protein

MS2Plex[®] assay kits

OCT2 (human/monkey) Assay Kit

T05004

- > Specificity:
 - > Human: 100 %
 - > Mouse: 0 %
- > Limit of quantification: 0.3 fmol/μg of total protein
- > Standard curve range: 0.3 to 30 fmol/μg of total protein
- > Monkey: 100 %

► Human CYP450s Assays

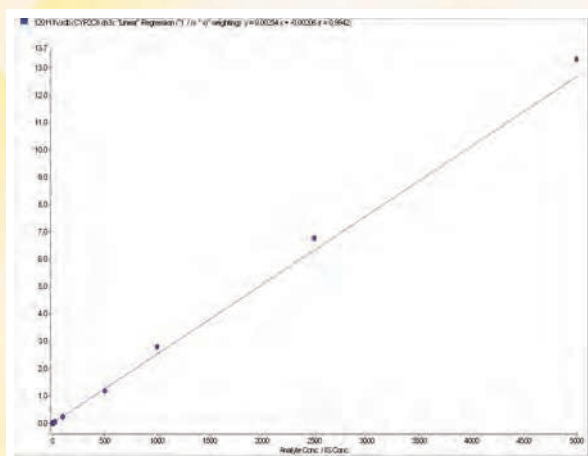
Xenobiotic biotransformation is the principal mechanism for maintaining homeostasis during organism exposure to foreign molecules such as drugs. It is accomplished by a limited number of enzymes with broad substrate specificities. Reactions catalyzed by xenobiotic-biotransforming enzymes are divided into two groups, called phase I and phase II, leading to an increase in hydrophilicity of xenobiotic, greatly enhancing their elimination.

Among the phase I biotransforming enzymes, cytochromes P450 (CYP450) rank first in terms of oxidation catalytic versatility and the broad number of xenobiotics they detoxify or activate to reactive intermediates, that may or may not be taken in charge by phase II enzymes.

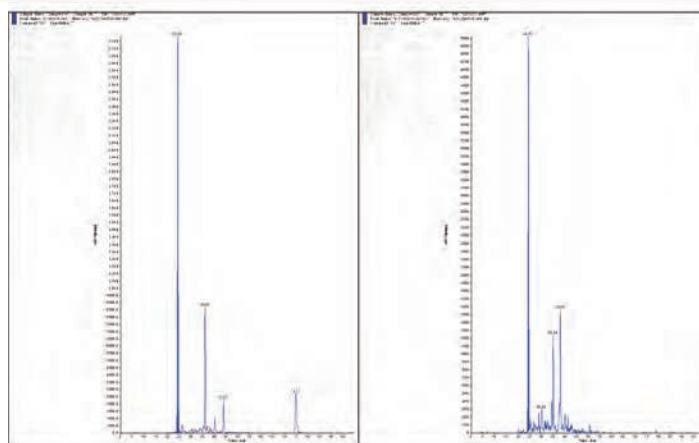
Being the major elimination route for many drugs, CYP450 enzymes play a very important role in the detoxication of xenobiotics, but may also lead to toxic or tumorigenic metabolites.

See also our chapter "Biochemicals & CYP450s" for further information about CYP450 microsomes recombinant enzymes, or our list of analytical standards, substrates and metabolites on page V.2.

- > Specificity: no cross reaction with other CYP are observed or known
- > Application media: microsomes, hepatocytes, tissue extracts, cell lines, cell membrane fractions
- > Preanalytical phase: see booklet
- > Stability: 6 months
- > Storage: -80°C
- > Size: 24 dtn
- > Sample amount: 50 μg of total protein
- > Shipping: dry ice



Calibration curve obtained for peptide related to CYP2C8



Chromatograms obtained for CYP2C8

Find below a current list of assay kits. Do not hesitate to contact us for an updated list:

CYP1A2 (human) Assay Kit T05007

- > Specificity:
 - > Human: 100 %
 - > Mouse: 0 %
- > Limit of quantification: 0.75 fmol/μg of total protein
- > Standard curve range: 0.75 to 150 fmol/μg of total protein

CYP2A6 (human) Assay Kit T05008

- > Specificity:
 - > Human: 100 %
 - > Mouse: 0 %
- > Limit of quantification: 0.75 fmol/μg of total protein
- > Standard curve range: 0.75 to 150 fmol/μg of total protein

CYP2B6 (human) Assay Kit T05009

- > Specificity:
 - > Human: 100 %
 - > Mouse: 0 %
- > Limit of quantification: 0.75 fmol/μg of total protein
- > Standard curve range: 0.75 to 150 fmol/μg of total protein

CYP2C8 (human) Assay Kit T05010

- > Specificity:
 - > Human: 100 %
 - > Mouse: 0 %
- > Limit of quantification: 0.75 fmol/μg of total protein
- > Standard curve range: 0.75 to 150 fmol/μg of total protein

CYP2C9 (human) Assay Kit T05011

- > Specificity:
 - > Human: 100 %
 - > Mouse: 0 %
- > Limit of quantification: 0.75 fmol/μg of total protein
- > Standard curve range: 0.75 to 150 fmol/μg of total protein

CYP2C19 (human) Assay Kit T05012

- > Specificity:
 - > Human: 100 %
 - > Mouse: 0 %
- > Limit of quantification: 0.75 fmol/μg of total protein
- > Standard curve range: 0.75 to 150 fmol/μg of total protein

CYP2D6 (human) Assay Kit T05013

- > Specificity:
 - > Human: 100 %
 - > Mouse: 0 %
- > Limit of quantification: 0.75 fmol/μg of total protein
- > Standard curve range: 0.75 to 150 fmol/μg of total protein

MS2Plex[®] assay kits

CYP3A4 (human) Assay Kit

T05014

- > Specificity:
 - > Human: 100 %
 - > Mouse: 0 %
- > Limit of quantification: 0.75 fmol/μg of total protein
- > Standard curve range: 0.75 to 150 fmol/μg of total protein
- > Monkey: 0 %

► Human Enzyme UDP GlucuronosylTransferase (UGT) Assays

UGTs are a family of enzymes not only capable of the detoxification and activation of drugs and xenobiotics, but are also involved in the metabolism of important endogenous substrates, e.g. bilirubin or thyroid hormones. The biochemical characterization of the different isoforms is complicated due to the broad substrate specificity (and overlapping substrate affinities (i.e. one substrate is metabolized by more than one isoform)). Glucuronidated compounds are susceptible to deconjugation by beta-glucuronidase, an enzyme that is widely distributed in mammalian tissues and localized intracellularly in lysosomes and endoplasmic reticulum.

Combined actions of UGTs and beta-glucuronidase may play a role in futile cycling in which conjugated metabolites undergo successive cycles of synthesis to the glucuronide and hydrolysis back to the aglycone.

- > Specificity: human UGT listed below
- > Application media: microsomes, tissue extracts, cell lines, cell membrane fractions
- > Preanalytical phase: see booklet
- > Stability: 6 months
- > Storage: -80°C
- > Size: 24 dtn
- > Sample amount: 50 μg of total protein
- > Shipping: dry ice

Find below a current list of assay kits. Do not hesitate to contact us for an updated list:

UGT1A1 (human) Assay Kit

T05015

- > Limit of quantification: at least 3 fmol/μg of total protein
- > Standard curve range: 3 to 300 fmol/μg of total protein

UGT1A3 (human) Assay Kit

T05016

- > Limit of quantification: at least 3 fmol/μg of total protein
- > Standard curve range: 3 to 300 fmol/μg of total protein

UGT1A6 (human) Assay Kit

T05017

- > Limit of quantification: at least 3 fmol/μg of total protein
- > Standard curve range: 3 to 300 fmol/μg of total protein

UGT1A9 (human) Assay Kit

T05018

- > Limit of quantification: at least 3 fmol/μg of total protein
- > Standard curve range: 3 to 300 fmol/μg of total protein

UGT2B7=UGT2B9 (human) Assay Kit

T05019

- > Limit of quantification: at least 3 fmol/μg of total protein
- > Standard curve range: 3 to 300 fmol/μg of total protein

UGT2B15=UGT2B8 (human) Assay Kit

T05020

- > Limit of quantification: at least 3 fmol/μg of total protein
- > Standard curve range: 3 to 300 fmol/μg of total protein

► Multiplex Protein Assay Kits

- | | | | |
|--------------|----------|----------------------------|-------------------------|
| > Stability: | 6 months | > Sample amount: | 50 μg of total protein |
| > Storage: | -80°C | > Limit of quantification: | see each single protein |
| > Shipping: | dry ice | > Standard curve range: | see each single protein |
| > Size: | 24 dtn | | |

DMPK A (MDR1, BCRP)

T05021

- > Specificity: refer to each single protein (MDR1, BCRP)
- > Application media: microsomes, hepatocytes, tissue extracts, cell membrane fractions
- > Preanalytical phase: see booklet

DMPK B (MDR1, BCRP, OATP1B1, OATP1B3)

T05022

- > Specificity: refer to each single protein (MDR1, BCRP, OATP1B1 and OATP1B3)
- > Application media: microsomes, hepatocytes, tissue extracts, cell membrane fractions
- > Preanalytical phase: see booklet

DMPK C (MDR1, OAT1, OAT3, OCT2)

T05023

- > Specificity: refer to each single protein (MDR1, OAT1, OAT3 and OCT2)
- > Application media: microsomes, hepatocytes, tissue extracts, cell membrane fractions
- > Preanalytical phase: see booklet

DMPK D (CYP1A2, CYP2B6, CYP2C9, CYP3A4)

T05024

- > Specificity: human, CYP450 1A2, 2B6, 2C9, 3A4
- > Application media: microsomes, hepatocytes, tissue extracts, cell membrane fractions
- > Preanalytical phase: see booklet

Introduction to AChE[®] technology & formats used

Before presenting our range of enzyme immunoassays, we want to give you some very useful information on the AChE[®] technology and the various formats of assays used.

Our scientific people have written this chapter with a view to give the best possible explanations.

The AChE[®] Technology



Acetylcholinesterase (AChE[®]), the enzymatic label for EIA, has the fastest turnover rate of any enzymatic label. AChE[®] assays are developed with Ellman's reagent, which contains acetylthiocholine as a substrate. The final product of the enzymatic reaction (5-thio-2-nitrobenzoic acid), is bright yellow and can be read at 405-414 nm.

AChE[®] offers several advantages compared to enzymes conventionally used in EIAs:

- ▶ **Kinetic superiority and high sensitivity:** AChE[®] shows true first-order kinetics with a turnover of 64,000 sec⁻¹. That is nearly 3 times faster than Horse Radish Peroxidase (HRP) or alkaline phosphate. AChE[®] allows a greater sensitivity than other labelling enzymes.
- ▶ **Low background:** non enzymatic hydrolysis of acetylthiocholine in buffer is essentially absent. So, AChE[®] allows a very low background and an increased signal/noise ratio compared to other substrate of enzymes which is inherently unstable.
- ▶ **Wide dynamic range:** AChE[®] is a stable enzyme and its activity remains constant for many hours as, unlike other enzymes, its substrate is not suicidal. This permits simultaneous assays of high diluted and very concentrated samples.
- ▶ **Versatility:** AChE[®] is a completely stable enzyme, unlike peroxidase which is suicidal. Thus, if a plate is accidentally dropped after dispatch of the AChE[®] substrate (Ellman's reagent), one only needs to wash the plate, add fresh Ellman's reagent and proceed with a new development. Otherwise, the plate can be stored at +4°C while waiting for technical advice from the Bioreagent Department.

Materials needed but not supplied

▶ "UltraPure" water

Water used to prepare all EIA reagents and buffers must be deionized and free from organic contaminants trace (Ultra Pure). Use activated carbon filter cartridges or other organic scavengers. Glass distilled water (even if double distilled), HPLC-grade water and sterile water (for injections) are not adequate for EIA.

Note: UltraPure water is available from Bertin Pharma #A07001 (see our Pre-analytical Phase chapter).

Introduction to AChE[®] technology & formats used

Assay formats used

Below are the main features of the 4 technologies used in the assays presented in this catalogue.

► Enzyme Linked Immuno Sorbent Assay (ELISA)



- ▷ Competition between substance from the sample and substance immobilized on the plate,
- ▷ Tracer is the antibody (or a secondary antibody) coupled to an enzyme,
- ▷ The original immuno assay developed in 1971,
- ▷ Uses polyclonal or monoclonal antibodies,
- ▷ Requests large amount of substance to be assayed,
- ▷ Low sensitivity,
- ▷ Can be used to measure either the substance or the presence of antibodies specific to the substance.

► Competitive ImmunoAssay



- ▷ Competition between a tracer & the substance to be assayed for a limited quantity of antibody,
- ▷ Tracer is the substance to be assayed bound to an enzyme,
- ▷ Assay method can be applied to haptens,
- ▷ Uses polyclonal or monoclonal antibodies,
- ▷ Request limited quantity of antibody & tracer,
- ▷ Sensitivity depends directly on the antibody-antigen affinity,
- ▷ Standard curve is a sigmoid where signal decreases while substance concentration increases.

► Two-site (sandwich) ImmunoAssay



- ▷ Adapted to immunogens with at least two epitopes,
- ▷ Use of a couple of antibodies (monoclonal or polyclonal),
- ▷ Complementary antibody couple is a key factor for sensitivity and specificity,
- ▷ Reagents (antibody & tracer) are in excess, requesting monoclonal rather than polyclonal antibody,
- ▷ Antibody-antigen affinity is not the limiting factor to reach optimal sensitivity,
- ▷ Signal is proportional to the substance concentration.

► Solid-Phase Immobilized Epitote Immunometric Assay (SPIE-IA)



- ▷ Sandwich method using the same epitope,
- ▷ Compromise between competitive and sandwich immunoassay as:
- ▷ Adapted for both haptens & immunogens,
- ▷ Use of either polyclonal or monoclonal antibodies,
- ▷ Use of only one antibody (as for competitive format),
- ▷ Antibody-antigen affinity is not a limiting factor (as two-site immunoassay Format),
- ▷ Signal is proportional to the substance concentration (as two-site immunoassay Format).

SPI-Bio™ assay kits

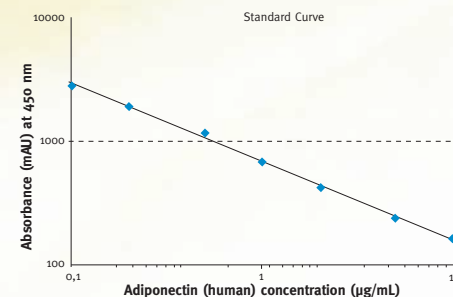
Adiponectin, also referred to as Acrp30, AdipoQ and GBP-28, is a 244 aminoacid protein, which is physiologically active, specifically and highly expressed in adipose cells (**adipokine**). Adiponectin forms homotrimers, which are the building blocks for higher order complexes found circulating in serum.

Paradoxically, adipose tissue-expressed adiponectin levels are inversely related to the degree of adiposity. A reduction in adiponectin serum levels is accompanied by insulin resistance states, such as **obesity** and **type II diabetes** mellitus. Adiponectin has been shown to increase insulin sensitivity and decrease plasma glucose by increasing tissue **fat oxidation**. It inhibits the inflammatory processes of atherosclerosis suppressing the expression of adhesion and cytokine molecules in vascular endothelial cells and macrophages, respectively.

Adiponectin (human) EIA Kit

A05185

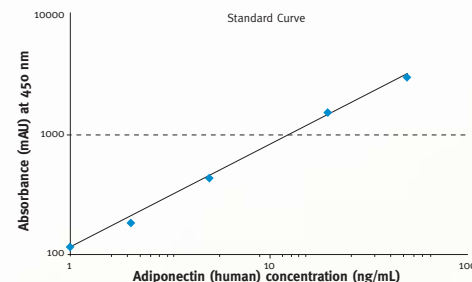
- > Specificity:
 - > Human leptin: <0.1 %
 - > Human leptin receptor: <0.1 %
 - > Human resistin: <0.1 %
 - > Horse adiponectin: <0.1 %
 - > Rabbit adiponectin: <0.1 %
 - > Mouse adiponectin: <0.1 %
 - > Cow adiponectin: <0.1 %
- > Application media: human serum and plasma
- > Preanalytical phase: 1/30 dilution prior assay
- > Format: Enzyme Linked Immuno Sorbent Assay
- > Stability: 6 months*
- > Storage: +4°C
- > Shipping: wet ice
- > Size: 96 wells
- > Tracer label: HRP
- > Sample volume: 10 µL
- > Limit of detection: 0.7 µg/mL
- > Standard curve range: 0.1-10 µg/mL



Adiponectin High Sensivity (human) EIA Kit

A05186

- > Specificity:
 - > Human leptin: <0.1 %
 - > Human resistin: <0.1 %
 - > Human leptin receptor: <0.1 %
 - > Sheep, goat, horse, cow, pig and rabbit adiponectin: <0.1 %
 - > Monkey serum equivalent to: 15-19 µg/mL
- > Application media: human serum, plasma, breast milk, urine and tissue culture supernatant
- > Preanalytical phase: 1/300 dilution for serum and plasma, 1/3 for breast milk and urine prior assay
- > Format: two-site (sandwich) EIA
- > Stability: 6 months*
- > Storage: +4°C
- > Shipping: wet ice
- > Size: 96 wells
- > Tracer label: HRP
- > Sample volume: 5 µL
- > Limit of detection: 0.5 ng/mL
- > Standard curve range: 5-150 ng/mL for serum and plasma, 1-50 ng/mL for milk and urine



*: Updated information available upon request

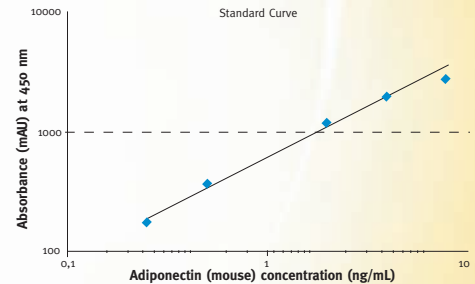
Adiponectin (mouse) EIA Kit

A05187

- > Specificity:
- > Rat adiponectin: <0.3 %
 - > Mouse leptin: <0.1 %
 - > Mouse leptin receptor: <0.1 %
 - > Mouse resistin: <0.1 %
 - > Human, rabbit, hamster, horse, pig adiponectin: <0.1 %

- > Application media: mouse serum
- > Preanalytical phase: 1/10 000 dilution prior assay

- > Format: two-site (sandwich) EIA
- > Stability: 6 months*
- > Storage: +4°C
- > Shipping: wet ice
- > Size: 96 wells
- > Tracer label: HRP
- > Sample volume: 10 µL
- > Limit of detection: 0.1 ng/mL
- > Standard curve range: 0.25-8 ng/mL



AFABP (human) EIA Kit

A05181

Adipocyte Fatty Acid Binding Protein (AFABP) is a 15 kDa member of the intracellular Fatty Acid Binding Protein (FABP) family, which is known for the ability to bind **fatty acids and related compounds**. AFABP is expressed in a tissue specific-manner in differentiated adipocytes and is a critical gene in the regulation of the biological function of these cells. According to some results, AFABP may be involved in **mediating obesity-induced alterations** in adipocyte gene expression.

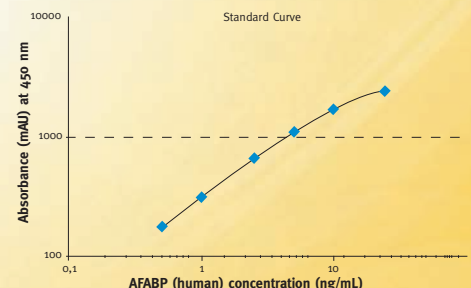
In macrophages, AFABP modulates **inflammatory responses** and cholesterol ester accumulation, and total or macrophage-specific AFABP deficiency confers dramatic protection against **atherosclerosis** in the apoE^{-/-} mice. These results indicate a central role for AFABP in the development of major components of the **metabolic syndrome** through its distinct actions in adipocytes and macrophages.

Besides being active within the cell, AFABP appears to be a secreted protein, with unknown function.

- > Specificity:
- > Human Leptin: <0.1 %
 - > Human Leptin Receptor: <0.1 %
 - > Human Resistin: <0.1 %
 - > Monkey serum equivalent to 19 ng/mL
 - > Rabbit, goat, pig, horse, rat, sheep, hamster and bovine AFABP: <0.1 %

- > Application media: human serum, plasma, tissue extract and culture supernatant
- > Preanalytical phase: 1/10 dilution for serum and plasma prior assay

- > Format: two-site (sandwich) EIA
- > Stability: 6 months*
- > Storage: +4°C
- > Shipping: wet ice
- > Size: 96 wells
- > Tracer label: HRP
- > Sample volume: 20 µL
- > Limit of detection: 0.1 ng/mL
- > Standard curve range: 0.5-25 ng/mL



*: Updated information available upon request

SPI-Bio™ assay kits

Albumin High Sensitivity (rat) EIA Kit

A05102

Albumin is a natural protein that circulates in the human blood plasma. It is only produced by the liver and one of the key regulating the osmotic pressure of blood. Albumin is also very important in the transportation of many substances such as drugs, lipids, hormones, and toxins that are bound to albumin in the bloodstream.

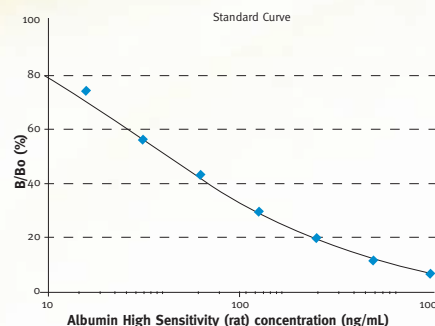
Albumin cyclically leaves the circulation, through the endothelial barrier at the level of the capillaries, passes into the interstitium and returns to the bloodstream through the lymph system via thoracic duct.

Albumin has well-established and important functions in health. Its kinetic and dynamic properties are significantly altered in the critically ill. For example, presence of albumin in urine reflects a kidney failure linked to hypertension and diabetes. This assay has been developed to allow simple assessment of renal damage in rat models. Nephrotoxicity caused by various experimental protocols may result in leakage of plasma proteins into urine.

- > Specificity:
 - > Rat albumin: 100 %
 - > Mouse albumin: 0.55 %
 - > Bovin serum albumin: <0.01 %

- > Application media: rat urine sample
- > Preanalytical phase: no extraction required

- | | | | |
|--------------|-----------------|-------------------------|--------------|
| > Format: | competitive EIA | > Tracer label: | ACHe® |
| > Stability: | 22 months | > Sample volume: | 50 µL |
| > Storage: | -20°C | > Limit of detection: | 13 ng/mL |
| > Shipping: | dry ice | > Standard curve range: | 8-1000 ng/mL |
| > Size: | 96 wells | | |



Angiotensin II SPIE-IA Kit

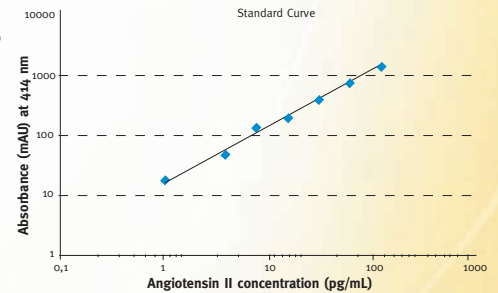
A05880

The renin-angiotensin system is essential for the control of **blood pressure**. Among the different peptides resulting from the proteolytic processing of angiotensinogen, the octapeptide **Angiotensin II (All)** is the major hormone involved in the pathophysiology of **hypertensive diseases** as it mediates vasoconstrictor action. It is the target of choice allowing proper estimation of the **renin-angiotensin system**.

- | | | | | |
|----------------|-----------------------------|-------|--------------------|---------|
| > Specificity: | > Angiotensin II: | 100 % | > Angiotensin 3-8: | 33 % |
| | > Mammalian angiotensin II: | 100 % | > Angiotensin I: | 4 % |
| | > Angiotensin III: | 36 % | > Angiotensin 1-7: | <0.01 % |

- > Application media: plasma sample, culture supernatant
 > Preanalytical phase: blood collection with inhibitor cocktail
 solid-phase extraction for plasma
 culture supernatants: no extraction required

- | | | | |
|--------------|----------|-------------------------|-------------|
| > Format: | SPIE-IA | > Tracer label: | AChE® |
| > Stability: | 2 years | > Sample volume: | 100 µL |
| > Storage: | -20°C | > Limit of detection: | 1 pg/mL |
| > Shipping: | dry ice | > Standard curve range: | 1-125 pg/mL |
| > Size: | 96 wells | | |



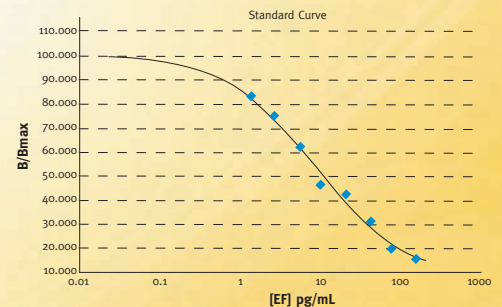
Anthrax EF Detection EIA Kit

A05230

Anthrax is an infectious disease due to *Bacillus anthracis*, a gram-positive, spore-forming bacterium. The pathogenic power of this bacteria is due to exotoxin secreted into the host's system as nontoxic proteins. While linking together they form toxin complexes. The three parts of the pathogen complex are the protective antigen (PA), lethal factor (LF) and edema factor (EF). At the molecular level, the PA binds to cells receptor where it is cleaved to PA20 and PA63. PA63 can competitively bind EF or LF or both. The complex PA-LF forms lethal toxin (LTx) and PA complexed with EF forms the edema toxin (ETx). EF is a calmoduline and CA2+ dependent adenylyl cyclase which catalyses the conversion of adenosine triphosphate to cyclic adenosine monophosphate (cAMP) leading to edema.

- > Specificity: N/A
 > Application media: human and mouse serum
 > Preanalytical phase: no extraction required

- | | | | |
|--------------|-------------|-------------------------|------------------------|
| > Format: | competition | > Tracer label: | AChE® |
| > Stability: | 1 year | > Sample volume: | 5 µL |
| > Storage: | -20°C | > Limit of detection: | 0.553 pg/mL |
| > Shipping: | dry ice | > Standard curve range: | 1.56 pg/mL - 200 pg/mL |
| > Size: | 96 wells | | |



SPI-Bio™ assay kits

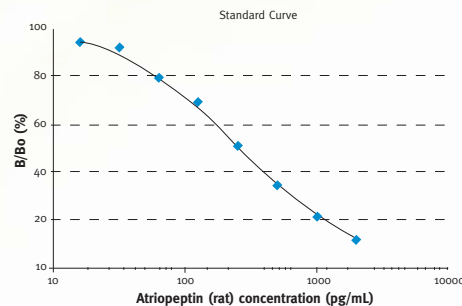
Atriopeptin (rat) EIA Kit

A05103

Atriopeptin or Atrial Natriuretic Peptide (ANP) is a 28 amino acid peptide synthesised primarily in cardiac atria. This peptide hormone acts in an **opposing manner to angiotensin** in regulating **renal, hemodynamic** and **endocrine** functions. Elevated plasma levels may be produced in experimental models by volume expansion, high salt diets and vasoconstrictors. Increased plasma concentrations have also been reported in various pathological conditions such as **renal disease, congestive heart failure** and **paroxysmal atrial tachycardia**.

> Specificity:	> Rat AP 24:	100 %	> Human β ANP:	50 %	> Rat atriopeptin I:	<0.01 %
	> Rat α -ANP:	100 %	> Human γ ANP:	40 %	> BNP:	<0.01 %
	> Human ANP:	100 %	> Auriculin A:	10 %	> Oxytocin:	<0.01 %
	> Rabbit ANP:	100%	> Rat atriopeptin II:	5 %	> Somatostatin:	<0.01 %
	> Mouse ANP:	100%	> Rat ANP (13-28):	1 %	> Arg ⁸ -Vasopressin:	<0.01 %
	> ANP (8-33):	100 %				
	> Uradilatin:	100 %				
	> ANP (18-28):	60 %				

> Application media:	plasma and cardia tissue	> Tracer label:	AChE®
> Preanalytical phase:	solid-phase extraction for plasma sample cardia tissue: extraction with CH ₃ COOH	> Sample volume:	50 μ L
> Format:	competitive EIA	> Limit of detection:	16 pg/mL
> Stability:	3 years	> Standard curve range:	16-2000 pg/mL
> Storage:	-20°C		
> Shipping:	dry ice		
> Size:	96 wells		



Calcitonin Gene Related Peptide (CGRP) is a potent **vasodilator**, and also elicits a number of other biological effects. Average plasma levels of CGRP have been reported to be from 0.8 pmol/L to 71 pmol/L (3 pg/mL to 269 pg/mL) in normal subjects. Increases in circulating CGRP levels have been noticed during **hemodialysis, pregnancy, exacerbation of asthma** and in cases of **medullary thyroid carcinoma**.

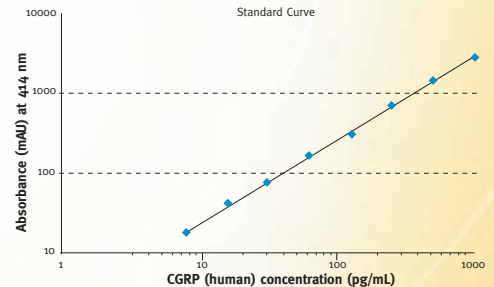
CGRP (human) EIA Kit

A05481

- | | | | | |
|----------------|--------------------------------|-------|----------------|---------|
| > Specificity: | > Rat CGRP-I/II: | 120 % | > CGRP (8-37): | <0.01 % |
| | > Rat CGRP- α/β : | 120 % | > Amylin: | <0.01 % |
| | > Human CGRP-I/II: | 100 % | > Calcitonin: | <0.01 % |
| | > Human CGRP- α/β : | 100 % | > Substance P: | <0.01 % |

- > Application media: human blood, plasma, serum, culture supernatant, nervous tissues, cerebrospinal fluid
- > Preanalytical phase: plasma & serum: extraction required
cerebrospinal fluid: 1/20 dilution prior assay
other nervous tissue: extraction with 2N acetic acid
blood, plasma, serum & other mixtures: solid-phase extraction

- | | | | |
|--------------|-------------------------|-------------------------|--------------|
| > Format: | two-site (sandwich) EIA | > Tracer label: | AChE® |
| > Stability: | 3 years | > Sample volume: | 100 μ L |
| > Storage: | -20°C | > Limit of detection: | 2 pg/mL |
| > Shipping: | dry ice | > Standard curve range: | 8-1000 pg/mL |
| > Size: | 96 wells | | |



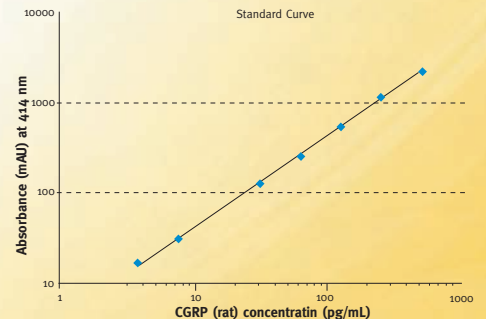
CGRP (rat) EIA Kit

A05482

- | | | | | |
|----------------|--------------------------------|-------|----------------|---------|
| > Specificity: | > Rat CGRP-I/II: | 100 % | > CGRP (8-37): | <0.01 % |
| | > Rat CGRP- α/β : | 100 % | > Amylin: | <0.01 % |
| | > Mouse CGRP: | 100% | > Calcitonin: | <0.01 % |
| | > Dog CGRP: | 100% | > Substance P: | <0.01 % |
| | > Human CGRP-I/II: | 83 % | | |
| | > Human CGRP- α/β : | 83 % | | |

- > Application media: rat blood, plasma, serum, culture supernatant, nervous tissues, cerebrospinal fluid
- > Preanalytical phase: plasma & serum: no extraction required if CGRP free
plasma or serum used for standard curves are produced with #A19482. Otherwise, proceed extraction with C-18 RPC (#D30005)

- | | | | |
|--------------|-------------------------|-------------------------|-------------|
| > Format: | two-site (sandwich) EIA | > Tracer label: | AChE® |
| > Stability: | 3 years | > Sample volume: | 100 μ L |
| > Storage: | -20°C | > Limit of detection: | 0.7 pg/mL |
| > Shipping: | dry ice | > Standard curve range: | 4-500 pg/mL |
| > Size: | 96 wells | | |



SPI-Bio™ assay kits

Ghrelin discovered in 1999, is fast becoming an **endocrinology target of the millennium**. Ghrelin, identified in rat stomach as an endogenous ligand for the GH secretagogue receptor, is mainly produced in stomach, but has been demonstrated in many other organs.

In addition to GH-releasing properties and its orexant action, Ghrelin could act as an hormone having effects on gastric motility (similarity with the peptide hormone motilin), acidic secretion, cardiovascular action, antiproliferative effects, pancreatic and glucose metabolism function, sleep...

Ghrelin gene raises to mRNA prepro-ghrelin of 117 amino acids. This precursor is processed into Ghrelin, 28 amino acids (human). Before being secreted, this peptide is **octanoylated** at Ser 3. This step is **essential for biological activity**.

If the endogenous peptide appears directly related to feeding behaviour, the potential therapeutic importance of this hormone is not restricted to a **regulator of food intake** but also may be involved in osteoporosis somatopaus, infertility and ovulation induction, and some cardiovascular diseases.

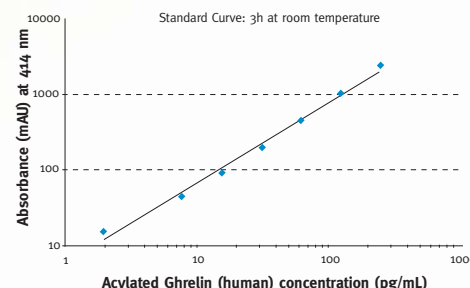
Acylated Ghrelin (human) EIA Kit

A05106

> Specificity:	> Rat acylated ghrelin:	118 %	> Human & rat ghrelin (17-28):	<0.001 %
	> Human acylated ghrelin:	100 %	> Human & rat CRF:	<0.001 %
	> Human & rat unacylated ghrelin:	<0.001 %	> Human & rat glucagon:	<0.001 %
	> Human ghrelin (1-14):	<0.001 %	> Human insulin, leptin & GHRF:	<0.001 %
	> Rat ghrelin (1-11):	<0.001 %	> Motilin & somatostatin:	<0.001 %

> Application media:	plasma
> Preanalytical phase:	pour 1 mL of collected blood in our PHMB tubes (#D31009) or collect blood with EDTA + p-Hydroxymercuribenzoic acid

> Format:	two-site (sandwich) EIA	> Tracer label:	AChE®
> Stability:	2 years	> Sample volume:	20 µL
> Storage:	-20°C	> Limit of detection:	0.3 pg/mL
> Shipping:	dry ice	> Standard curve range:	2-250 pg/mL
> Size:	96 wells		



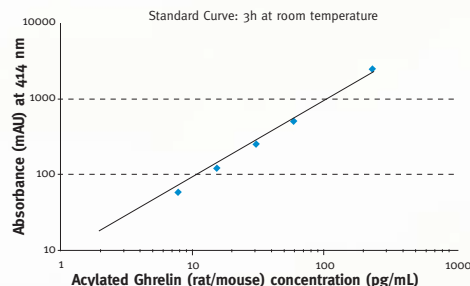
Acylated Ghrelin (rat/mouse) EIA Kit

A05117

> Specificity:	> Rat acylated ghrelin:	100 %	> Human & rat ghrelin (17-28):	<0.001 %
	> Mouse acylated ghrelin:	100 %	> Human & rat CRF:	<0.001 %
	> Human acylated ghrelin:	82 %	> Human & rat glucagon:	<0.001 %
	> Human, mouse & rat unacylated ghrelin:	<0.001 %	> Human insulin, leptin & GHRF:	<0.001 %
	> Human ghrelin (1-14):	<0.001 %	> Motilin & somatostatin:	<0.001 %
	> Rat ghrelin (1-11):	<0.001 %		

> Application media:	plasma
> Preanalytical phase:	pour 1 mL of collected blood in our PHMB tubes (#D31009) or collect blood with EDTA + p-Hydroxymercuribenzoic acid

> Format:	two-site (sandwich) EIA	> Tracer label:	AChE®
> Stability:	2 years	> Sample volume:	20 µL
> Storage:	-20°C	> Limit of detection:	0.2 pg/mL
> Shipping:	dry ice	> Standard curve range:	2-250 pg/mL
> Size:	96 wells		



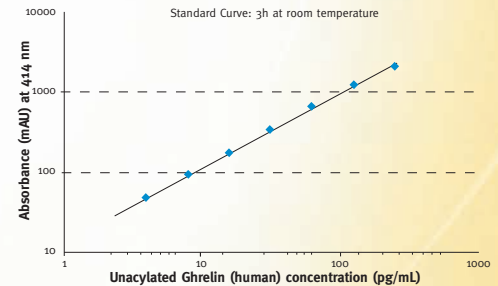
Unacylated Ghrelin (human) EIA Kit

A05119

- | | | | | |
|----------------|--------------------------------|----------|-------------------------|----------|
| > Specificity: | > Human unacylated ghrelin: | 100% | > Human insulin: | <0.001 % |
| | > Rat unacylated ghrelin | 100 % | > Motilin: | <0.001 % |
| | > Rat & mouse acylated ghrelin | 0.03 % | > Human leptin: | <0.001 % |
| | > Human acylated ghrelin | 0.06 % | > Somatostatin: | <0.001 % |
| | > Rat ghrelin (1-11): | <0.001 % | > Human & rat CRF: | <0.001 % |
| | > Human ghrelin (1-14): | <0.001 % | > Human & rat glucagon: | <0.001 % |
| | > Human & rat ghrelin (17-28): | <0.001 % | | |
| | > Human GHRF: <0.001 % | | | |

- > Application media: plasma
 > Preanalytical phase: 1/10 dilution prior assay

- | | | | |
|--------------|-------------------------|-------------------------|----------------|
| > Format: | two-site (sandwich) EIA | > Tracer label: | AChE® |
| > Stability: | 2 years | > Sample volume: | 10 µL |
| > Storage: | -20°C | > Limit of detection: | 0.2 pg/mL |
| > Shipping: | dry ice | > Standard curve range: | 1.56-250 pg/mL |
| > Size: | 96 wells | | |



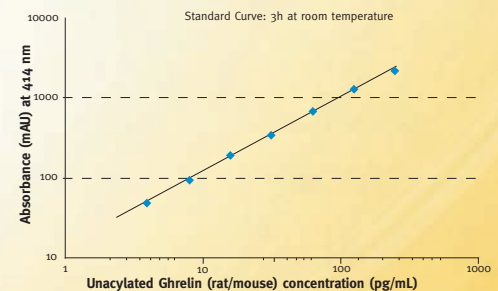
Unacylated Ghrelin (rat/mouse) EIA Kit

A05118

- | | | | | |
|----------------|--------------------------------|----------|--------------------|----------|
| > Specificity: | > Rat unacylated ghrelin: | 100% | > Rat GHRF: | <0.001 % |
| | > Human unacylated ghrelin | 100 % | > Rat insulin: | <0.001 % |
| | > Rat & mouse acylated ghrelin | 0.03 % | > Motilin: | <0.001 % |
| | > Human acylated ghrelin | 0.06 % | > Rat leptin: | <0.001 % |
| | > Rat ghrelin (1-11): | <0.001 % | > Somatostatin: | <0.001 % |
| | > Human ghrelin (1-14): | <0.001 % | > Human & rat CRF: | <0.001 % |
| | > Human & rat ghrelin (17-28): | <0.001 % | | |
| | > Human & rat glucagon: | <0.001 % | | |

- > Application media: plasma
 > Preanalytical phase: 1/10 dilution prior assay

- | | | | |
|--------------|-------------------------|-------------------------|----------------|
| > Format: | two-site (sandwich) EIA | > Tracer label: | AChE® |
| > Stability: | 2 years | > Sample volume: | 10 µL |
| > Storage: | -20°C | > Limit of detection: | 0.6 pg/mL |
| > Shipping: | dry ice | > Standard curve range: | 1.56-250 pg/mL |
| > Size: | 96 wells | | |



SPI-Bio™ assay kits

GFAP (human) EIA Kit

A05188

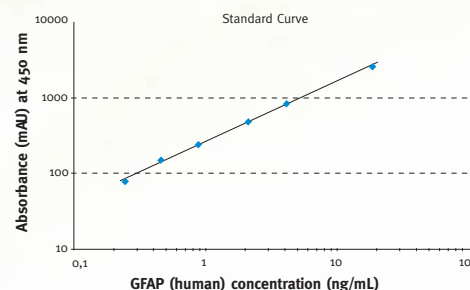
Glial Fibrillary Acidic Protein (GFAP) is the principal 8-9 nm intermediate filament in mature astrocytes of the **Central Nervous System (CNS)**. The findings showed that GFAP is released after **traumatic brain injury** severity and outcome into the blood very soon after traumatic brain injury (TBI) and that GFAP is not released after multiple trauma without brain injury. In the CNS following injury, either as a result of trauma, disease, genetic disorders or chemical insult, astrocytes become reactive and insult respond in **astrogliosis**. Astrogliosis is characterized by rapid synthesis of GFAP. GFAP normally increases with age and there is a wide variation in the collection and processing of human brain tissue. GFAP is also an established biomarker of retinal stress.

- | | | | | |
|----------------|----------------|--------|-------------------------|--------|
| > Specificity: | > Mouse GFAP: | <0.1 % | > Goat GFAP: | <0.1 % |
| | > Rabbit GFAP: | <0.1 % | > Hamster GFAP: | <0.1 % |
| | > Horse GFAP: | <0.1 % | > Sheep and bovine ASP: | <0.1 % |

> Application media: human serum, plasma, cerebrospinal fluid and culture supernatant

> Preanalytical phase: 1/3 dilution prior assay

- | | | | |
|--------------|-------------------------|-------------------------|---------------|
| > Format: | two-site (sandwich) EIA | > Tracer label: | HRP |
| > Stability: | 6 months* | > Sample volume: | 50 µL |
| > Storage: | +4 °C | > Limit of detection: | 0.04 ng/mL |
| > Shipping: | wet ice | > Standard curve range: | 0.25-25 ng/mL |
| > Size: | 96 wells | | |



Glucose-6-Phosphate Dehydrogenase (G6PDH) Assay Kit

D05010

The glucose-6-phosphate dehydrogenase (G6PDH) is located in the cell cytosol. This enzyme is part of the pentose phosphate pathway for fatty acid and ribose-5-P production. During this anabolic pathway NADPH,H⁺ is produced. This reduced species is a key component of the oxidative homeostasis maintaining the level of antioxidant metabolite like glutathione.

G6PDH is a good indirect biomarker to evaluate the oxidative stress.

> Specificity: N/A

> Application media: cell culture

> Preanalytical phase: sonication, centrifugation

- | | | | |
|--------------|-----------|-------------------------|------------------|
| > Format: | enzymatic | > Tracer label: | N/A |
| > Stability: | 6 months | > Sample volume: | 50 µL |
| > Storage: | -20 °C | > Limit of detection: | 28-12 µmol/min.g |
| > Shipping: | dry ice | > Standard curve range: | N/A |
| > Size: | 96 wells | | |

*: Updated information available upon request

Growth Hormone (rat) EIA Kit

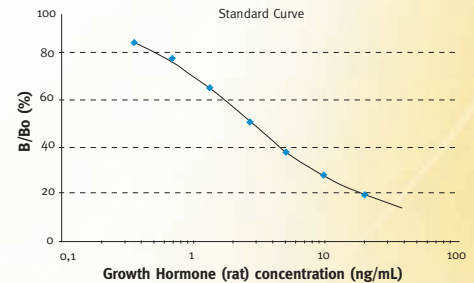
A05104

Growth hormone (GH), a polypeptide hormone with a molecular weight of 23, 000 Daltons released from **somatotropes of the anterior pituitary**, is regulated by several **neurotransmitters** and **neuropeptides**. Among other functions, it plays an essential role in regulating body growth.

- | | | | | |
|----------------|-------------------------|--------|-------------------------|--------|
| > Specificity: | > Rat growth hormone: | 100 % | > Human growth hormone: | <0.1 % |
| | > Mouse growth hormone: | 91 % | > Rat LH: | <0.1 % |
| | > Rat prolactin: | <1 % | > Rat TSH: | <0.1 % |
| | > Rat FSH: | <0.1 % | | |

- | | |
|------------------------|--------------------------------|
| > Application media: | plasma and culture supernatant |
| > Preanalytical phase: | no extraction required |

- | | | | |
|--------------|-----------------|-------------------------|--------------|
| > Format: | competitive EIA | > Tracer label: | ACHe® |
| > Stability: | 2 years | > Sample volume: | 50 µL |
| > Storage: | -20°C | > Limit of detection: | 0.5 ng/mL |
| > Shipping: | dry ice | > Standard curve range: | 0.3-40 ng/mL |
| > Size: | 96 wells | | |



Histamine EIA Kit

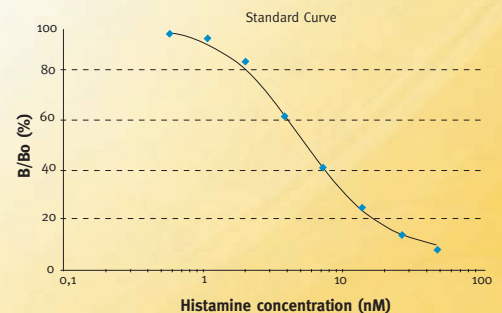
A05890

Histamine is a natural amine present in many animal and human tissues. It was considered to be the mediator of **immediate allergy**. Histamine plays a role in various physiological processes, such as control of **gastric acid secretion**, **neurotransmission** and **modulation of inflammatory and immunological reactions**. This competitive enzyme-immunoassay uses a prederivation (derivate reagent with a structure close to the spacer arm used for the immunogen preparation) of histamine that allows to enhance the sensitivity of the assay.

- | | | | | |
|----------------|-----------------------|--------|--------------|---------|
| > Specificity: | > Histamine: | 100 % | > Histidine: | <0.01 % |
| | > 3 methyl histamine: | 0.04 % | > Serotonin: | <0.01 % |
| | > 1 methyl histamine: | 0.01 % | | |

- | | |
|------------------------|--|
| > Application media: | plasma, urine, culture supernatant as well as liquid (e.g. broncho-alveolar lavage fluids) or solid (brain, nervous tissue) biological samples |
| > Preanalytical phase: | plasma, urine and culture supernatant: no extraction required
liquid or solid biological samples: extraction with HClO ₄ |

- | | | | |
|--------------|-----------------|-------------------------|-----------|
| > Format: | competitive EIA | > Tracer label: | ACHe® |
| > Stability: | 18 months | > Sample volume: | 100 µL |
| > Storage: | -20°C | > Limit of detection: | 0.5 nM |
| > Shipping: | dry ice | > Standard curve range: | 0.4-50 nM |
| > Size: | 96 wells | | |



SPI-Bio™ assay kits

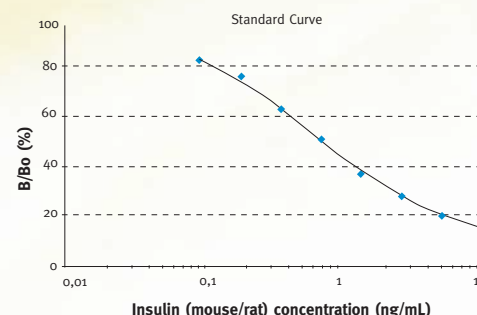
Insulin (mouse/rat) EIA Kit

A05105

Insulin is a polypeptide hormone with molecular weight of 6,000 Daltons, composed of two peptides chains, A and B, jointed by two cross-linked disulphide bonds and synthesised by the beta cells of the islets of Langerhans of the pancreas. Insulin influences most of the **metabolic functions** of the body. Its best known action is to lower the blood glucose concentration by increasing the rate at which glucose is converted to glycogen in the liver and muscles and to fat in adipose tissue, by stimulating the rate of glucose metabolism and by depressing gluconeogenesis.

Focus on hemolysis: Hemolysis interferes with the assay by degrading insulin. To prevent hemolysis consequences, SPI-Bio™ has an inhibitor cocktail and a procedure available.

- | | | |
|------------------------|--|---------------------------------------|
| > Specificity: | > Rat insulin: 100 % | > Porcine insulin: 100 % |
| | > Human insulin: 100 % | > Sheep insulin: 100 % |
| | > Mouse insulin: 100 % | > Hamster insulin: 0 % |
| > Application media: | plasma and serum | |
| > Preanalytical phase: | no extraction required; inhibitor cocktail to prevent hemolysis consequences | |
| > Format: | competitive EIA | > Tracer label: AChE® |
| > Stability: | 3 years | > Sample volume: 50 µL |
| > Storage: | -20°C | > Limit of detection: 0.08 ng/mL |
| > Shipping: | dry ice | > Standard curve range: 0.08-10 ng/mL |
| > Size: | 96 wells | |



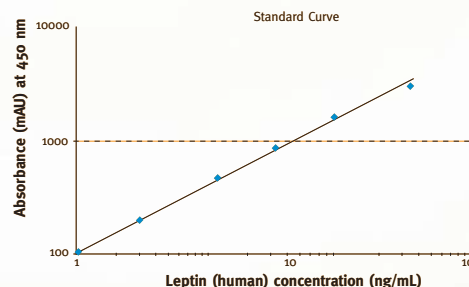
Leptin, the product of the ob (obese) gene, is produced mainly in the adipose tissue, and is considered to play an important role in **appetite control, fat metabolism and body weight regulation**. The primary effect of leptin appears to be mediated by **leptin receptors** expressed mainly in the hypothalamus. In humans, leptin levels correlate with body mass index (**BMI**) and percentage body fat, and are elevated even in obese individuals. Leptin has a dual action: it decreases the appetite and increases energy consumption. Leptin is secreted in circadian fashion with nocturnal rise in both lean and obese patients.

Mutations of the ob gene resulting in leptin deficiency are the cause of **obesity** in the ob/ob mice suggesting that endogenous leptin can normalize their body weight. In contrast, human obese subjects may have high level of leptin, indicating a mechanism of leptin resistance.

Leptin (human) EIA Kit

A05174

- | | | |
|------------------------|---|-------------------------------------|
| > Specificity: | > Human leptin: 100 % | |
| | > Rat, mouse leptin: <0.1% | |
| > Application media: | human serum, plasma and culture supernatant | |
| > Preanalytical phase: | 1/3 dilution prior assay | |
| > Format: | two-site (sandwich) EIA | > Tracer label: HRP |
| > Stability: | 9 months* | > Sample volume: 50 µL |
| > Storage: | +4°C | > Limit of detection: 0.2 ng/mL |
| > Shipping: | wet ice | > Standard curve range: 2-100 ng/mL |
| > Size: | 96 wells | |

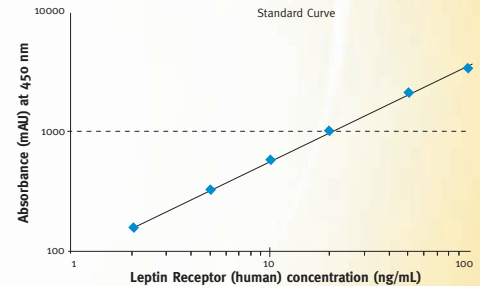


*: Updated information available upon request

Leptin Receptor (human) EIA Kit

A05175

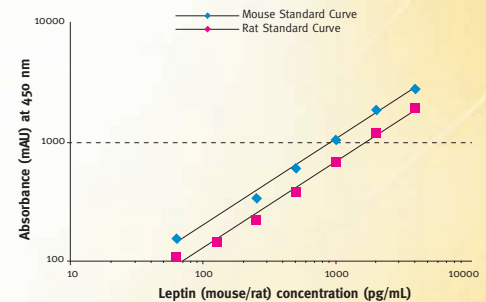
- > Specificity:
 - > Mouse leptin: <0.1 %
 - > Rabbit leptin: <0.1 %
 - > Goat leptin: <0.1 %
 - > Rat leptin: <0.1 %
 - > Bovine leptin: <0.1 %
 - > Horse leptin: <0.1 %
 - > Sheep and pig leptin: <0.1 %
- > Application media: human serum, plasma and culture supernatant
- > Preanalytical phase: 1/3 dilution prior assay
- > Format: two-site (sandwich) EIA
- > Stability: 9 months*
- > Storage: +4°C
- > Shipping: wet ice
- > Size: 96 wells
- > Tracer label: HRP
- > Sample volume: 50 µL
- > Limit of detection: 0.15 ng/mL
- > Standard curve range: 2-100 ng/mL



Leptin (mouse/rat) EIA Kit

A05176

- > Specificity:
 - > Mouse leptin: 100 %
 - > Rat leptin: 100 %
- > Application media: mouse and rat serum, plasma and culture supernatant
- > Preanalytical phase: 1/20 to 1/10 dilution prior assay
- > Format: two-site (sandwich) EIA
- > Stability: 9 months*
- > Storage: +4°C
- > Shipping: wet ice
- > Size: 96 wells
- > Tracer label: HRP
- > Sample volume: 15 µL
- > Limit of detection: 50 pg/mL
- > Standard curve range: 63-4000 pg/mL



Prion EIA Kit

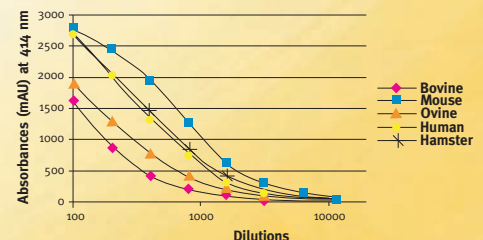
A05201

Prion Protein (PrP, or PrP^C) product of the PrP gene is constitutively expressed by numerous cells type. Despite being highly conserved, with a sequence homology greater than 90 % in most mammalian species, the human Prion gene has a number of variants. One form, known as **PrPres** is resistant to proteinase K, and according to the prion hypothesis, would be the infectious agent of **Transmissible Spongiforme Encephalopathies** (TSE), where PrPres accumulated essentially in **Central Nervous System** (CNS). The wells of the plate supplied with the kit are coated with a monoclonal antibody specific to the Prion Protein which recognises the protein sequence within amino acids 142-160 of human numbering. This antibody will bind any PrP introduced in the wells. An acetylcholinesterase (AChE®) - Fab' conjugate which recognises the octo-repeat region located in the N-terminal part of PrP^C is also added to the wells.

These two antibodies were raised against a preparation of **Scrapie Associated Fibrils** (SAF) from infected hamster brain.

- > Specificity: > detection for bovine, ovine, hamster, human & mouse PrP
- > Application media: tissue extract
- > Preanalytical phase: extraction from tissue and species specific dilution

- > Format: two-site (sandwich) EIA
- > Stability: 12 months
- > Storage: -20°C
- > Shipping: dry ice
- > Size: 96 wells
- > Tracer label: AChE®
- > Sample volume: 100 µL
- > Limit of detection: not applicable
- > Standard Curve range: dilution curve



The figure above shows the dilutions curves of bovine, mouse, ovine, human and hamster brain extracts (10 %) in EIA Buffer.

*: Updated information available upon request

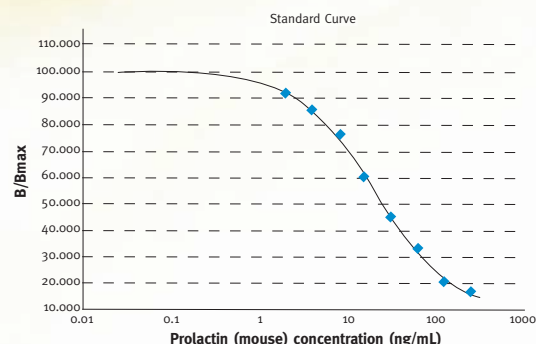
SPI-Bio™ assay kits

Prolactin (PRL) is a pituitary hormone whose molecular weight is approximately 23000 Daltons. It is a single polypeptide chain composed of about 200 amino acid residues with three disulphide bonds. In mammals, prolactin has been claimed to exert a wide range of different physiological effects. These include stimulation of **mammary gland** development and **lactation**, **hair maturation**, synergism with androgen in male sex accessory growth and maintenance and secretion of corpus luteum. PRL is predominantly under inhibitory control by the hypothalamus. Stimulation of prolactin release can be mediated by **dopamine** and **thyrotrophin-releasing hormone** (TRH). Additionally, PRL is a serotonin, dopamine agonist side effect biomarker and has been shown to play a role in several cancer.

Prolactin (mouse) EIA Kit

A05136

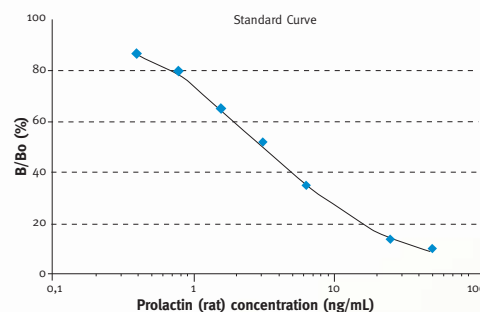
- > Specificity: > N/A
- > Application media: culture supernatant
- > Preanalytical phase: no extraction required
- > Format: competition
- > Stability: 1 year
- > Storage: -20°C
- > Shipping: dry ice
- > Size: 96 wells
- > Tracer label: AChE®
- > Sample volume: 50 µL
- > Limit of detection: 3.5 ng/mL
- > Standard curve range: 1,8 ng/mL – 250 ng/mL



Prolactin (rat) EIA Kit

A05101

- > Specificity: > Rat prolactin: 100 %
- > Murine prolactin: <10 %
- > Rat GH, LH or TSH: <1 %
- > Application media: plasma, serum and culture supernatant
- > Preanalytical phase: no extraction required
- > Format: competitive EIA
- > Stability: 2 years
- > Storage: -20°C
- > Shipping: dry ice
- > Size: 96 wells
- > Tracer label: AChE®
- > Sample volume: 50 µL
- > Limit of detection: 0.2 ng/mL
- > Standard curve range: 0.4-50 ng/mL



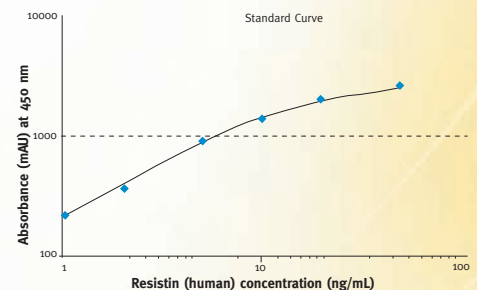
Resistin is a peptide hormone belonging to the class of cysteine-rich secreted proteins which is termed the RELM family, and is also described as ADSF (Adipose Tissue-Specific Secretory Factor) and FIZZ3 (Found in Inflammatory Zone).

Previous studies have shown that in mice, resistin impairs glucose tolerance and insulin action and inhibits adipogenesis in murine 3T3-L1 cells. Therefore, resistin has also been proposed as an adipocyte secreted factor that is thought to link **obesity and type 2 diabetes**. The role of resistin in human obesity remains controversial even if some data show that Thiazolidinedione down regulate resistin.

Resistin (human) EIA Kit

A05177

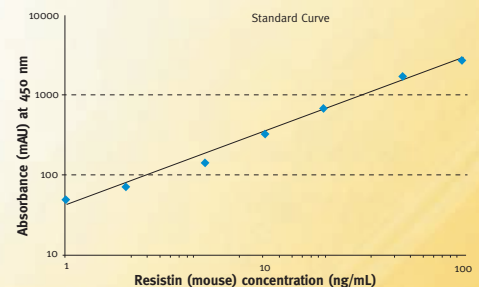
- > Specificity:
 - > Human leptin, leptin receptor, adiponectin, TNF- α , AFABP, IL-6, AGRP, ASP: <0.1 %
 - > Mouse, rabbit, goat, rat, sheep, chicken, hamster, and bovine resistin: <0.1 %
 - > Horse serum equivalent to: 21 ng/mL
 - > Pig serum equivalent to: 12 ng/mL
 - > Monkey serum equivalent to: 6 ng/mL
- > Application media: human serum, plasma and culture supernatant
- > Preanalytical phase: 1/3 dilution for serum and plasma prior assay
- > Format: two-site (sandwich) EIA
- > Stability: 9 months*
- > Storage: +4°C
- > Shipping: wet ice
- > Size: 96 wells
- > Tracer label: HRP
- > Sample volume: 50 μ L
- > Limit of detection: 0.1 ng/mL
- > Standard curve range: 1-50 ng/mL



Resistin (mouse) EIA Kit

A05178

- > Specificity:
 - > Mouse leptin, leptin receptor & adiponectin: <0.1 %
 - > Rat serum equivalent to: 2.43 ng/mL
 - > Horse serum equivalent to: 2.04 ng/mL
 - > Human serum equivalent to: 0.30 ng/mL
 - > Rabbit serum equivalent to: 0.28 ng/mL
 - > Bovine serum equivalent to: 0.19 ng/mL
- > Application Media: mouse serum, plasma (EDTA, citrate) and culture supernatant
- > Preanalytical phase: 1/100 dilution for serum and plasma prior assay
- > Format: two-site (sandwich) EIA
- > Stability: 6 months*
- > Storage: +4°C
- > Shipping: wet ice
- > Size: 96 wells
- > Tracer label: HRP
- > Sample volume: 10 μ L
- > Limit of detection: 5 ng/mL
- > Standard curve range: 1-100 ng/mL



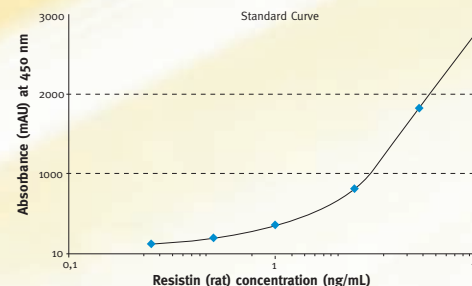
*: Updated information available upon request

SPI-Bio™ assay kits

Resistin (rat) EIA Kit

A05179

- > Specificity: > Human, mouse, rabbit, horse, goat, pig, sheep, chicken, hamster, monkey and bovine resistin: <0.1 %
- > Application Media: rat serum and culture supernatant
- > Preanalytical phase: 1/20 dilution for serum prior assay
- > Format: two-site (sandwich) EIA
- > Stability: 6 months*
- > Storage: +4°C
- > Shipping: wet ice
- > Size: 96 wells
- > Tracer label: HRP
- > Sample volume: 10 µL
- > Limit of detection: 0.05 ng/mL
- > Standard curve range: 0.25-20 ng/mL

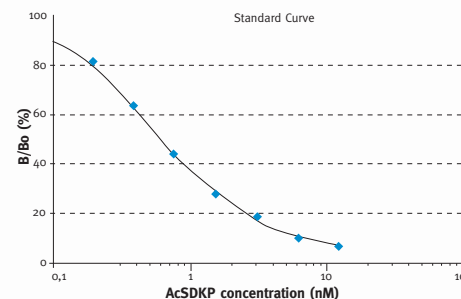


AcSDKP Assay Kit

A05881

AcSDKP is a new reliability marker of **chronic ACE inhibition**. The tetrapeptide N-acetyl-seryl-aspartyl-lysyl-proline (AcSDKP) is an endogenous regulatory factor of hematopoiesis which reverses stem cells and normal early progenitors into S-phase. Angiotensin I-Converting Enzyme (ACE) has two homologous active NH₂- and COOH-terminal domains and displays activity toward a broad range of substrates. The AcSDKP has been shown to be hydrolyzed by ACE and to be a preferential substrate for its NH₂-terminal active site. In healthy subjects, the acute administration of the **ACE inhibitor** captopril **increases** the **AcSDKP plasma levels**. Several studies aimed to measure plasma or urine AcSDKP levels during treatment with various ACE inhibitors and to confirm its relevance as a marker of ACE inhibition.

- > Specificity:
 - > AcSDOP: 500 %
 - > AcSDKP: 100 %
 - > AcSDRP: 100 %
 - > AcADKP: 6 %
 - > SDKP: 0.5 %
 - > Thymosin β4: <0.25 %
 - > AcSDK: <0.03 %
 - > AcSDKPDC: <0.01 %
 - > TNFα: <0.01 %
 - > AcSDKPY: <0.01 %
- > Application media: plasma, urine and blood cells
- > Preanalytical phase:
 - blood collection with captopril
 - plasma/serum: purification using methanol precipitation
 - blood cells: methanol precipitation
 - urine: no extraction required
- > Format: competitive EIA
- > Stability: 18 months
- > Storage: -20°C
- > Shipping: dry ice
- > Tracer label: AChE®
- > Sample volume: 50 µL
- > Limit of detection: 0.1 nM
- > Size: 96 wells
- > Standard curve range: urine: short immunological reaction (3H RT): 0.19 – 25 nM
- > Plasma: long immunological reaction (18H 4°C): 0.09 – 12.5 nM



*: Updated information available upon request

Cayman Chemical assay kits

Bertin Pharma is the European platform for Cayman Chemical products. Cayman Chemical markets Enzyme ImmunoAssays using our AChE® technology, enzymatic assays, cell-based assays and a broad range of biochemicals. Here is a non-exhaustive list of assays proposed by Cayman Chemical in their catalogue, available from us.

Bioactive Peptides

Substance P EIA kit	583751
Endothelin EIA Kit	583151

Cell-Based Assay

20S Proteasome Assay Kit	10008041
7-AAD Cell Viability Assay Kit	10009856
7-AAD/CFSE Cell-Mediated Cytotoxicity Assay Kit	600120
Adipogenesis Assay Kit	10006908
Adipolysis Assay Kit	10009381
Aldehyde Site (DNA and Protein) Detection Kit	600170
Annexin V FITC Assay Kit	600300
Apoptotic Blebs Assay Kit	10010750
Autophagy/Cytotoxicity Dual Staining Kit	600140
Caspase-3 Fluorescence Assay Kit	10009135
Cell Cycle Phase Determination Kit	10009349
CFSE Cell Division Assay Kit	10009853
Cholesterol Cell-Based Detection Assay Kit	10009779
Cholesterol Uptake Cell-Based Assay Kit	600440
ChREBP Cell-Based Translocation Assay Kit	10010060
ERK/MAPK (Phospho-Thr202/Tyr204) Cell-Based Phosphorylation/Translocation Assay Kit	10010549
Glutathione Cell-Based Detection Kit (Blue Fluorescence)	600360
Glycerol Cell-Based Assay Kit	10011725
Hydrogen Peroxide Cell-Based Assay Kit	600050
<i>In Vitro</i> Angiogenesis Assay Kit	10009964
JC-1 Mitochondrial Membrane Potential Assay Kit	10009172
LDH Cytotoxicity Assay Kit	10008882
LDL Uptake Cell-Based Assay Kit	10011125
Lipid Droplets Fluorescence Assay Kit	500001
Lysosome/Cytotoxicity Dual Staining Kit	600310
MTT Cell Proliferation Assay Kit	10009365
Multi-Parameter Apoptosis Assay Kit	600330
Nuclear Extraction Kit	10009277
P38 MAPK (Phospho-Thr180/Tyr182) Cell-Based Phosphorylation/Translocation Assay Kit	10010374
p53 Cell-Based Activation/Translocation Assay Kit	600008
p53 Total and p53 (Phospho-Ser ³⁹²) Dual Staining Assay Kit	600060
Phagocytosis Assay Kit (IgG FITC)	500290
Secreted Alkaline Phosphatase Reporter Gene Assay Kit (Luminescence)	600260
Soluble Epoxide Hydrolase Cell-Based Assay Kit	600090

*: Updated information available upon request

Cayman Chemical assay kits

SREBP-2 Cell-Based Translocation Assay Kit	10009239
Steatosis Colorimetric Assay Kit – Exclusive	10012643
WST-1 Cell Proliferation Assay Kit	10008883
WST-8 Cell Proliferation Assay Kit	10010199
XTT Cell Proliferation Assay Kit	10010200

Cyclooxygenase Activity

Colorimetric COX (ovine) Inhibitor Screening Assay Kit	760111
COX (ovine) Inhibitor Screening Assay Kit	560101
COX Activity Assay Kit	760151
COX Fluorescent Activity Assay Kit	700200
COX Fluorescent Inhibitor Screening Assay Kit	700100
COX Inhibitor Screening Assay Kit	560131

Chromatin Modification

Demethylase (Jumonji-type) Activity Assay Kit	700390
Demethylase (LSD-type) Activity Assay Kit	700400
DNA Methylation EIA kit	589324
G9a Methyltransferase Inhibitor Screening Assay Kit	700500
HAT Inhibitor Screening Assay Kit	10006515
HDAC Activity Assay Kit	10011563
HDAC Cell-Based Activity Assay Kit	600150
HDAC1 Inhibitor Screening Assay Kit	10011564
HDAC8 Inhibitor Screening Assay Kit	700230
JMJD2A Inhibitor Screening Assay Kit	700360
JMJD2D Inhibitor Screening Assay Kit	700370
LSD1 Inhibitor Screening Assay Kit	700120
Methyltransferase Colorimetric Assay Kit	700140
Methyltransferase Fluorometric Assay Kit	700150
SET7/9 Methyltransferase Inhibitor Screening Assay Kit	700270
SET8 Methyltransferase Inhibitor Screening Assay Kit	700350
SIRT1 Direct Fluorescent Screening Assay Kit	10010401
SIRT1 FRET-Based Screening Assay Kit	10010991
SIRT2 Direct Fluorescent Screening Assay Kit	700280
SIRT3 Direct Fluorescent Screening Assay Kit	10011566
SIRT6 Direct Fluorescent Screening Assay Kit	700290

Cayman Chemical assay kits

Cyclic nucleotides

Cyclic AMP EIA Kit	581001	Cyclic GMP EIA Kit	581021
cAMP EIA Kit (without Acetic Anhydride)	581002	cGMP EIA Kit (without Acetic Anhydride)	581022

Cytokines

Interleukin-1 α (human) EIA Kit	583301	Interleukin-4 (human) EIA Kit	583341
Interleukin-1 β (human) EIA Kit	583311	Interleukin-6 (human) EIA Kit	583361
Interleukin-2 (human) EIA Kit	583321	TNF- α (human) EIA Kit	589201

Endocrinology & Metabolism

β -Hydroxybutyrate (Ketone Body) Assay Kit	700190	FABP4 Inhibitor/Ligand Screening Assay Kit	10010231
Adipogenesis Assay Kit	10006908	Glucose Assay Kit	10009582
Adipolysis Assay Kit	10009381	Glycerol Assay Kit	10010755
C-Reactive Protein (human) EIA Kit	10011236	Human Serum Albumin EIA Kit	500340
DPP (IV) Inhibitor Screening Assay Kit	700210		

Hypertension

Arginine Vasopressin EIA Kit			583951
Renin Inhibitor Screening Assay Kit			10006270
Soluble Epoxide Hydrolase Cell-Based Assay Kit			600090
Soluble Epoxide Hydrolase Inhibitor Screening Assay Kit			10011671

Leukotrienes

Cysteinyl Leukotriene Express EIA Kit	10009291	Leukotriene E4 EIA Kit	520411
Leukotriene B4 EIA Kit	520111	Luminex® Cysteinyl Leukotriene Kit	10007577
Leukotriene C4 EIA Kit	520211	Luminex® Leukotriene B4 Kit	500260
14,15-Leukotriene C4 EIA Kit	10006748		

Lipids

Cholesterol Assay Kit			10007640
Cholesterol Cell-Based Detection Assay Kit			10009779
cPLA ₂ Assay Kit			765021
FAAH Inhibitor Screening Assay Kit			10005196
Free Fatty Acid Assay Kit			700310
15(S)-HETE EIA Kit			534721
LDL Uptake Cell-Based Assay Kit			10011125
Lipid Droplets Fluorescence Assay Kit			500001
Lipoxygenase Inhibitor Screening Assay Kit			760700
Monoacylglycerol Lipase Inhibitor Screening Assay Kit			705192
PAF Acetylhydrolase Assay Kit			760901

Cayman Chemical assay kits

PAF Acetylhydrolase Inhibitor Screening Assay Kit	10004380
Phosphatidylcholine Assay Kit	10009926
sPLA ₂ Assay Kit	765001
sPLA ₂ ((human) type IIA) EIA Kit	585000
sPLA ₂ (Type V) Inhibitor Screening Assay Kit	10004883
Sphingomyelin Assay Kit	10009928
Sphingomyelinase Assay Kit	10006964
Sphingomyelinase Inhibitor Screening Assay Kit	700330
Triglyceride Assay Kit	10010303
Total Phosphatidic Acid Assay Kit	700240

Miscellaneous

Acid Phosphatase Assay Kit	10008051	Enterolactone EIA Kit	500520
Acridinium Protein Labeling Kit	200201	Formaldehyde Assay Kit	700380
Alanine Transaminase Activity Assay Kit	700260	His-Express Detection EIA Kit	10012445
BACE Inhibitor Screening Assay Kit	600070	Malachite Green Phosphate Assay Kit	10009325
Creatinine Assay Kit	500701	Protein Determination Kit (Bradford)	704002
DNA Laddering Kit	660990	S-Glutathionylated Protein Detection Kit	10010721

Nitric Oxide

Nitrate/Nitrite Colorimetric Assay Kit	780001	NOS Activity Assay Kit	781001
Nitrate/Nitrite Fluorometric Assay Kit	780051	S-Nitrosylated Protein Detection Kit	10006518
Nitrate/Nitrite Colorimetric Assay Kit (LDH method)	760871		

Oxidative Injury

Aconitase Assay Kit	705502	iPF2 α -VI EIA Kit	516301
Aldehyde Site (DNA and Protein) Detection Kit	600170	Lipid Hydroperoxide (LPO) Assay Kit	705002
Antioxidant Assay Kit	709001	Lipid Hydroperoxide (LPO) Assay Kit (96 wells)	705003
Catalase Assay Kit	707002	Methionine Sulfoxide Immunoblotting Kit	600160
1 γ -CEHC EIA Kit (plasma and serum)	1001062	Myeloperoxidase Chlorination Assay Kit	10006438
Glutathione Assay Kit	703002	Myeloperoxidase (human) EIA Kit	585001
Glutathione Peroxidase Assay Kit	703102	Myeloperoxidase Inhibitor Screening Assay Kit	700170
Glutathione Reductase Assay Kit	703202	Myeloperoxidase Peroxidation Assay Kit	700160
Glutathione S-Transferase Assay Kit	703302	ent-Prostaglandin F2 α EIA Kit	10010382
8-hydroxy-2-deoxy Guanosine EIA Kit	589320	Protein Carbonyl Assay Kit	10005020
Hydrogen Peroxide (urinary) Assay Kit	706011	Superoxide Dismutase Assay Kit	706002
Hydrogen Peroxide Cell-Based Assay Kit	600050	TBARS Assay Kit	10009055
8-Isoprostane EIA Kit	516351	Thiol Detection Assay Kit	700340
STAT-8-Isoprostane EIA Kit	500431	Thioredoxin Reductase Assay Kit	10007892
8-Isoprostane Express EIA Kit	516360	Xanthine Oxidase Assay Kit	10010895

Cayman Chemical assay kits

Prostaglandins

Fluprostenol EIA Kit	516761
11 β -Prostaglandin F2 α EIA Kit	516521
13,14-dihydro-15-keto Prostaglandin F2 α EIA Kit	516671
17-phenyl trinor Prostaglandin F2 α EIA Kit	516821
2,3-dinor-6-keto Prostaglandin F1 α EIA Kit	515121
6-keto Prostaglandin F1 α EIA	515211
Bimatoprost EIA Kit	516821
Latanoprost EIA Kit	516811
Luminex [®] Prostaglandin E2 Kit	10007501
Luminex [®] Prostaglandin E2/Interleukin-1 β Duplex Kit	10009597
Prostaglandin Colorimetric Screening EIA Kit	514012
Prostaglandin D Synthase (hematopoietic-type) FP-Based Inhibitor Screening Assay Kit – Green	600007
Prostaglandin D Synthase (lipocalin-type; (human)) EIA Kit – Exclusive	10007684
Prostaglandin D Synthase Inhibitor Screening Assay Kit	10006595
Prostaglandin D2 EIA Kit	512021
Prostaglandin D2 FPIA Kit – Green	500581
Prostaglandin D2 FPIA Kit – Red	10007835
Prostaglandin D2-MOX EIA Kit	512011
Prostaglandin D2-MOX Express EIA Kit	500151
Prostaglandin E Metabolite EIA Kit	514531
Prostaglandin E2 Affinity Purification Kit	514018
Prostaglandin E2 EIA Express Kit	500141
Prostaglandin E2 EIA Kit – Monoclonal	514010
Prostaglandin E2 FPIA Kit – Green	500501
Prostaglandin E2 FPIA Kit – Red	10004517
Prostaglandin F2 α EIA Kit	516011
Tetranor-PGDM EIA Kit – Exclusive	501001

Step Reporter

Melanocortin-3 Receptor STEP Reporter Assay Kit (Luminescence) – Exclusive	600180
Melanocortin-4 Receptor STEP Reporter Assay Kit (Luminescence) – Exclusive	600190
Orexin 1 Receptor STEP Reporter Assay Kit (Luminescence) – Exclusive	600240
Orexin 2 Receptor STEP Reporter Assay Kit (Luminescence) – Exclusive	600250
EP2 Receptor (rat) STEP Reporter Assay Kit (Luminescence) – Exclusive	600340
EP4 Receptor (rat) STEP Reporter Assay Kit (Luminescence)	600350
EP4 Receptor (rat) STEP Plate Assay Kit (cAMP method)	600410

Steroids

11-Keto Testosterone EIA Kit	582751	Estradiol EIA Kit	582251
Aldosterone EIA Kit – Monoclonal	1004377	Estriol EIA Kit	582281
Corticosterone EIA Kit	500651	Progesterone EIA Kit	582601
Cortisol EIA kit	582121	Testosterone EIA Kit	582701
Cortisol Express EIA Kit	10006791		

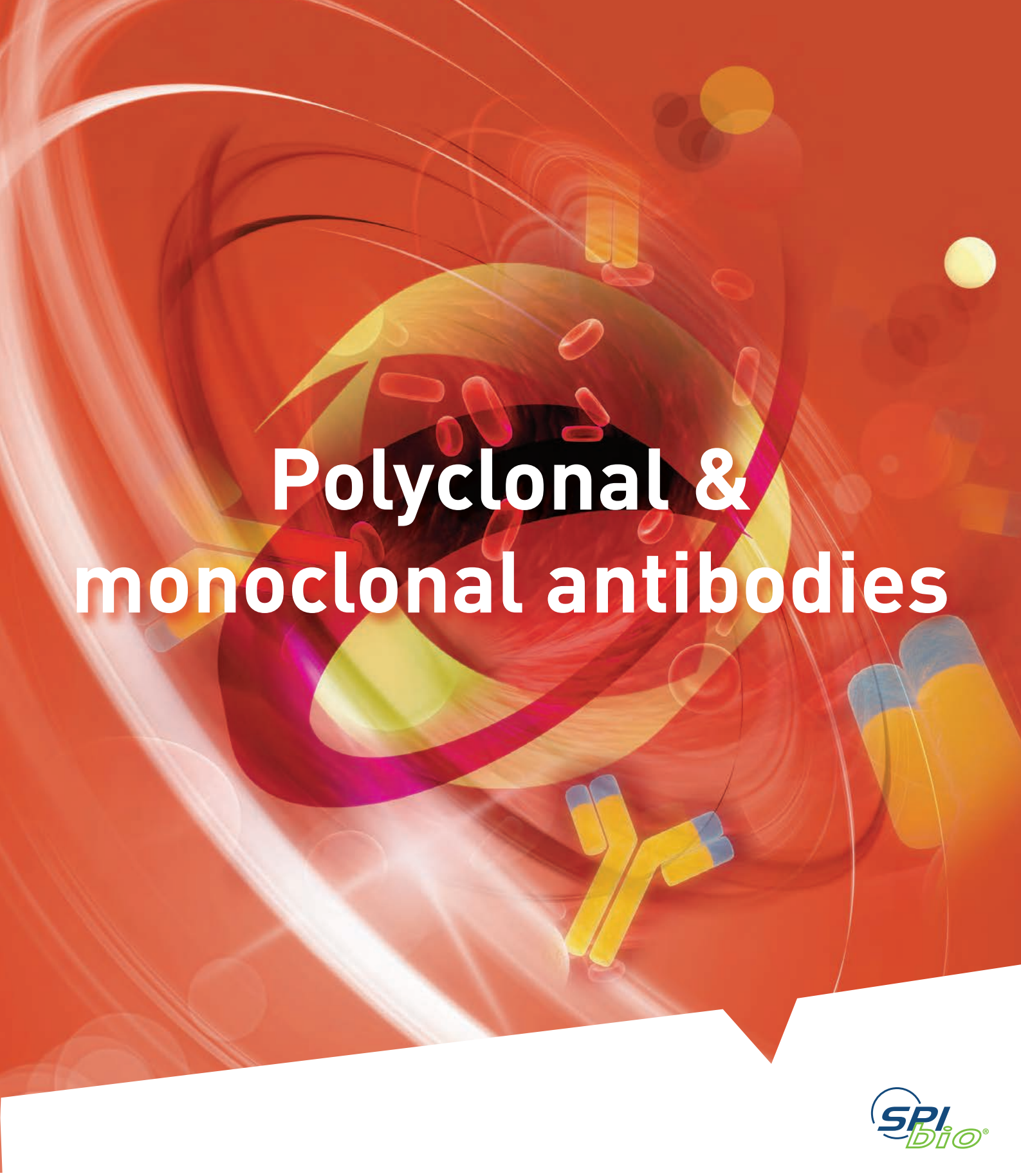
Cayman Chemical assay kits

Thromboxanes

2,3-dinor Thromboxane B ₂ EIA Kit	519051	Luminex® 11-dehydro Thromboxane B ₂ Kit	10010971
11-dehydro Thromboxane B ₂ EIA Kit	519501	Thromboxane B ₂ EIA Kit	519031
Aspirin™ Effect-Detection Kit	10010153	Thromboxane B ₂ Express EIA Kit – Monoclonal	10004023
Luminex® Thromboxane B ₂ Kit	10007502		

Transcription Factor

ATF2 (Phospho-Thr69,71) Transcription Factor Assay Kit	600130
ChREBP Cell-Based Translocation Assay Kit	10010060
ChREBP Transcription Factor Assay Kit	10006909
CREB (Phospho-Ser ¹³³) Transcription Factor Assay Kit	10009846
p53 Designer Transcription Factor Assay Kit	600030
HIF-1α Transcription Factor Assay Kit	10006910
NF-κB ((human) p50/p65) Combo Transcription Factor Assay Kit	10011223
NF-κB ((human) p50) Transcription Factor Assay Kit	10006912
NF-κB (p65) Transcription Factor Assay Kit	10007889
Nuclear Extraction Kit	10009277
p53 Cell-Based Activation/Translocation Assay Kit	600008
p53 Total and p53 (Phospho-Ser392) Dual Staining Assay Kit	600060
p53 Transcription Factor Assay Kit	600020
PPARδ.delta. Transcription Factor Assay Kit	10006914
PPARα Transcription Factor Assay Kit	10006915
PPARα, δ, γ Complete Transcription Factor Assay Kit	10008878
PPARγ FP-Based Ligand Screening Assay Kit – Green	10007685
PPARγ Transcription Factor Assay Kit	10006855
SREBP-2 Cell-Based Translocation Assay Kit	10009239
SREBP-1 Transcription Factor Assay Kit	10010854
SREBP-2 Transcription Factor Assay Kit	10007819



Polyclonal & monoclonal antibodies

Prion Protein (monoclonal)

All antibodies are **polyclonal** except when mentioned otherwise. Antibodies have to be stored at -20°C. Products are shipped in dry ice.

Prion Protein (monoclonal)

Prion Protein (PrP) and namely its abnormal isoform, partially resistant to proteinase K (PrPres), is the only specific molecular marker of the Transmissible Spongiform Encephalopathies (TSEs) such as Bovine Spongiform encephalopathy (BSE) or its human form, the New Variant of Creutzfeld-Jakob disease. Customs labelling is possible upon request (HRP, Biotin, Fluorophore).

Reference	Clone	Size	Cross Reactivity against PrP	Host	Applications
A03225	2G11	200 µg	Against PrPres: (+)caprine, (+)ovine, (+/-)bovine, (+/-)mouse, (+)bovine linked with 12F10, (-)human, (-)hamster	Mouse	IHC for sheep PrPres without PK treatment
A03220	8G8	200 µg	(+)hamster, (+)mouse, (-)bovine, (+)ovine, (+)human	Mouse	IHC
A03212	11C6	200 µg	(NDA) hamster, (+)mouse, (NDA) bovine, (NDA) ovine, (+)human	Mouse	EIA, FC, WB for human & mouse PrP
A03221	12F10	200 µg	(+/-)hamster, (+/-)mouse, (+)bovine, (+)ovine, (+)human	Mouse	IHC, WB
A03222	BAR 221	200 µg	(NDA) hamster, (+)mouse, (+)bovine, (+)ovine, (+)human	Mouse	EIA, FC, IHC, WB for mouse, ovine & human PrP
A03211	BAR 224	200 µg	(NDA) hamster, (-)mouse, (-)bovine, (+)ovine, (-)human	Mouse	EIA, FC, WB for mouse, ovine & human PrP; IHC for ovine PrP
A03223	BAR 233	200 µg	(NDA) hamster, (+)mouse, (NDA) bovine, (+)ovine, (+)human	Mouse	EIA, FC, WB for mouse, ovine & human PrP
A03224	BAR 236	200 µg	(NDA) hamster, (+)mouse, (NDA) bovine, (+)ovine, (+)human	Mouse	EIA, FC, WB for mouse, ovine & human PrP
A03200	Pri 308	200 µg	(+)hamster, (-)mouse, (-)bovine, (-)ovine, (+)human	Mouse	EIA, WB
A03202	SAF 32	200 µg	(+)hamster, (+)mouse, (+)bovine, (+)ovine, (+)human	Mouse	EIA, FC, IHC, WB
A03203	SAF 53	200 µg	(+)hamster, (+)mouse, (-)bovine, (-)ovine, (+)human	Mouse	EIA, FC
A03204	SAF 54	200 µg	(+)hamster, (+)mouse, (+)bovine, (+)ovine, (+)human	Mouse	IHC
A03205	SAF 61	200 µg	(+)hamster, (+)mouse, (+)bovine, (+)ovine, (+)human	Mouse	EIA, FC
A03206	SAF 70	200 µg	(+)hamster, (+)mouse, (+)bovine, (+)ovine, (+)human	Mouse	WB
A03207	SAF 83	200 µg	(+)hamster, (+)mouse, (+/-)bovine, (+/-)ovine, (+/-)human	Mouse	EIA, FC, WB
A03208	SAF 84	200 µg	(+)hamster, (+)mouse, (+)bovine, (+)ovine, (-)human	Mouse	IHC, WB
A030213	Sha 31	200 µg	PrPc, PrPsc (NDA) hamster, (+)mouse, (NDA) bovine, (+)ovine, (+)human	Mouse	EIA, WB

In bold: recommended use

EIA: Enzyme Immunoassay; FC: Flow Cytometry; IHC: Immunohistochemistry; NDA: No Data Available; PK: Proteinase K; WB: Western-blot

Cytokines / Drugs / Gamma Globulin

Cytokines

Reference	Designation	Clone	Size	Immunogen	Host	Applications
A03540	Interleukin 1 α (human) Monoclonal Antibody	185	200 μ g	Human IL 1 α	Mouse	EIA
A03544	Interleukin 1 α (human) Monoclonal Antibody	29	200 μ g	Human IL 1 α	Mouse	EIA
A03541	Interleukin 1 β (human) Monoclonal Antibody	79	200 μ g	Human IL 1 β	Mouse	EIA
A03545	Interleukin 1 β (human) Monoclonal Antibody	36	200 μ g	Human IL 1 β	Mouse	EIA
A03542	Interleukin 2 (human) Monoclonal Antibody	78	200 μ g	Human IL 2	Mouse	EIA
A03547	Interleukin 2 (human) Monoclonal Antibody	39	200 μ g	Human IL 2	Mouse	EIA
A03543	Interleukin 4 (human) Monoclonal Antibody	38	200 μ g	Human IL 4	Mouse	EIA
A03548	Interleukin 4 (human) Monoclonal Antibody	3	200 μ g	Human IL 4	Mouse	EIA

EIA: Enzyme Immunoassay

Drugs

Reference	Designation	Size	Immunogen	Host	Applications
A03613	Amphotericin B	500 dtn	Amphotericin B-BSA	Rabbit	EIA
A03602	Azidothymidine (AZT)	500 dtn	AZT-BSA	Rabbit	EIA
C03611	Bromocriptine	500 dtn	Bromocriptine-BSA	Rabbit	RIA
A03612	Bromocriptine & its main metabolites	500 dtn	Bromolysergic acid-BSA	Rabbit	EIA
C03609	Dihydroergotamine	500 dtn	Dihydroergotamine-BSA	Rabbit	RIA
A03610	Dihydroergotamine & its main metabolites	500 dtn	Dihydrolysergic acid-BSA	Rabbit	EIA
C03607	Dihydroergocryptine	500 dtn	Dihydroergocryptine-BSA	Rabbit	RIA
A03608	Dihydroergocryptine & its main metabolites	500 dtn	Dihydrolysergic acid-BSA	Rabbit	EIA
C03605	Dihydroergotoxine	500 dtn	Dihydroergotoxine-BSA	Rabbit	RIA
A03606	Dihydroergotoxine & its main metabolites	500 dtn	Dihydrolysergic acid-BSA	Rabbit	EIA
C03603	Nicergoline	500 dtn	N-demethyl-Nicergoline-BSA	Rabbit	RIA
A03604	Nicergoline & its main metabolites	500 dtn	N-demethyl-Nicergoline-BSA	Rabbit	EIA

BSA: Bovine Serum Albumin; EIA: Enzyme Immunoassay; RIA: Radio Immunoassay

Gamma Globulin

Reference	Designation	Size	Immunogen	Host	Applications
C03753	Horse Anti-IgG (rabbit)	10 mL	Rabbit IgG	Horse	RIA
C03755	Goat Anti-IgG (guinea pig)	10 mL	Guinea Pig IgG	Goat	RIA
C03757	Goat Anti-IgG (mouse)	10 mL	Mouse IgG	Goat	RIA
C03756	Goat Anti-IgG (rat)	10 mL	Rat IgG	Goat	RIA
C03754	Sheep Anti-IgG (guinea pig)	10 mL	Guinea Pig IgG	Sheep	RIA

EIA: Enzyme Immunoassay; RIA: Radio Immunoassay

Hormones / Leukotrienes

Hormones

Reference	Designation	Clone	Size	Immunogen	Host	Applications
C03164	ACTH		500 dtn	ACTH-OVA	Rabbit	RIA
C03150	$\Delta 4$ -Androstenedione		500 dtn	$\Delta 4$ -Androstenedione-6-HS-BSA	Rabbit	RIA
C03114	β Human Choriogonadotrophin (β -hCG)		500 dtn	β -hCG	Rabbit	RIA
C03160	Cortisol		500 dtn	Cortisol-21-HS-THYR	Rabbit	RIA
C03159	Corticosterone		500 dtn	Corticosterone-11-HS-BSA	Rabbit	RIA
C03171	CRF (ovine)		500 dtn	Ovine CRF-OVA	Rabbit	RIA
C03156	DHEA		500 dtn	DHEA-15 α -CM-BSA	Rabbit	RIA
C03129	DHEA sulphate		500 dtn	SDHEA-7 β -CM-BSA	Rabbit	RIA
C03109	Growth Hormone (human)		500 dtn	Human GH	Rabbit	RIA
A03904	Growth Hormone (rat)		25 μ L	Rat Growth Hormone	Goat	IHC
A03104	Growth Hormone (rat)		500 dtn	Rat GH	Goat	EIA
C03112	Insulin (human/dog)		500 dtn	Insulin	Guinea Pig	RIA
C03115	LH (human)		500 dtn	Human LH	Rabbit	RIA
C03165	LHRH		500 dtn	LHRH-BSA	Rabbit	RIA
C03125	Melatonin		500 dtn	Melatonin-formaldehyde-BSA	Rabbit	RIA
C03128	17 β -Oestradiol		500 dtn	17 β -Oestradiol-6-CMO-BSA	Rabbit	RIA
C03152	Oestriol		500 dtn	Oestriol-6-CMO-BSA	Rabbit	RIA
C03161	Oestrone		500 dtn	Oestrone-6-CMO-BSA	Rabbit	RIA
C03151	Oestrone		500 dtn	Oestrone-3-HS-BSA	Rabbit	RIA
C03113	Placental Lactogen Hormone		500 dtn	Placental Lactogen Hormone	Rabbit	RIA
C03146	Pregnenolone		500 dtn	Pregnenolone-20-CMO-BSA	Rabbit	RIA
C03147	Progesterone		500 dtn	Progesterone-11-HS-BSA	Rabbit	RIA
C03148	Progesterone Monoclonal Antibody	H47	500 dtn	Progesterone-11-HS-KLH	Mouse	RIA
C03149	20 α -dihydroprogesterone		500 dtn	20 α -dihydroprogesterone-3-CMO-BSA	Rabbit	RIA
C03110	Prolactin (human)		500 dtn	Human Prolactin	Rabbit	RIA
C03111	Prolactin (human) Monoclonal Antibody	B14-42	500 dtn	Human Prolactin	Mouse	RIA
A03101	Prolactin (rat)		500 dtn	Rat Prolactin	Rabbit	EIA
C03163	Somatostatin (SRIF)		500 dtn	SRIF-OVA	Rabbit	RIA
C03153	Testosterone		500 dtn	Testosterone-15 α -CM-BSA	Rabbit	RIA
C03126	Dihydrotestosterone		500 dtn	Dihydrotestosterone-1 α -CM-BSA	Rabbit	RIA
C03132	Triiodothyronin (T3)		500 dtn	T3-BSA	Rabbit	RIA
C03133	Triiodothyronin Reverse		500 dtn	T3 reverse-OVA	Rabbit	RIA
C03134	Thyroxin (T4)		500 dtn	T4-HSA	Rabbit	RIA
C03162	TRH		500 dtn	TRH-BDB-THYR	Rabbit	RIA
C03116	TSH (human)		500 dtn	Human TSH	Rabbit	RIA

BDB: Bis-Diazotized Benzidine; BSA: Bovine Serum Albumin; CM: Carboxymethyl; CMO: (O-Carboxymethyl)oxime; EIA: Enzyme Immunoassay; HSA: Human Serum Albumin; HS: Hemisuccinate; KLH: Keyhole Limpet Hemocyanin; OVA: Ovalbumin; RIA: Radio Immunoassay; THYR: Thyroglobulin; IHC: Immuno-Histo Chemistry.

Leukotrienes

Reference	Designation	Clone	Size	Immunogen	Host	Applications
A03020	Leukotriene B4		500 dtn	LTB4-BSA	Rabbit	EIA
C03024	Leukotriene B4		500 dtn	LTB4-BSA	Rabbit	RIA
A03021	Leukotriene C4		500 dtn	LTC4-BSA	Rabbit	EIA
C03025	Leukotriene C4, D4, E4 Monoclonal Antibody	A4B1	500 dtn	LTC4-KLH	Mouse	RIA
A03023	Leukotriene E4		500 dtn	LTE4-BSA	Rabbit	EIA

BSA: Bovine Serum Albumin; EIA: Enzyme Immunoassay; KLH: Keyhole Limpet Hemocyanin; RIA: Radio Immunoassay

Miscellaneous / Nucleosides / Peptides

Miscellaneous

Reference	Designation	Clone	Size	Immunogen	Host	Applications
A03102	Albumin (rat)		500 dtn	Rat Albumin	Rabbit	EIA
C03154	5 α -Androstan-3 α ,17 β -diol		500 dtn	5 α -Androstan-3 α ,17 β -diol-15-CM-BSA	Rabbit	RIA
C03155	5 α -Androstan-3 β ,17 β -diol		500 dtn	5 α -Androstan-3 β ,17 β -diol-7-CMO-BSA	Rabbit	RIA
A03583	COX1 (Monoclonal Antibody)		200 μ g	Purified ovine COX	Mouse	EIA
A03582	COX2 (Monoclonal Antibody)		200 μ g	Human COX-2 amino acids 580-599	Mouse	EIA
C03157	Diethylstilboestrol (butyrate)		500 dtn	DES-butyrates-BSA	Rabbit	RIA
C03158	Diethylstilboestrol (glucuronide)		500 dtn	DES-monoglucuronide- γ Globulines	Rabbit	RIA
A03062	GTPase Activating Protein (GAP) Monoclonal Antibody	GP200	200 μ g	GAP	Mouse	EIA
C03032	12-HETE		500 dtn	12-HETE-BSA	Rabbit	RIA
A03890	Histamine Monoclonal Antibody	MAB31	200 μ g	Histamine-NH-CO-(NH ₂) ₆ -S-maleinido-BSA	Mouse	EIA
A03145	Homovanillic Acid (HVA)		500 dtn	HVA-KLH	Rabbit	EIA
A03142	Vanillylmandelic Acid (VMA)		500 dtn	VMA-KLH	Rabbit	EIA

BSA: Bovine Serum Albumin; CM: Carboxymethyl; CMO: (O-carboxymethyl)oxime; EIA: Enzyme Immunoassay; KLH: Keyhole Limpet Hemocyanin; RIA: Radio Immunoassay

Nucleosides

Reference	Designation	Size	Immunogen	Host	Applications
A03060	cAMP	500 dtn	cAMP-KLH	Rabbit	EIA
C03063	cAMP	500 dtn	cAMP-BSA	Rabbit	RIA
C03064	cGMP	500 dtn	succinyl cGMP-BSA	Rabbit	RIA

BSA: Bovine Serum Albumin; EIA: Enzyme Immunoassay; KLH: Keyhole Limpet Hemocyanin; RIA: Radio Immunoassay

Peptides

Reference	Designation	Clone	Size	Immunogen	Host	Applications
A03880	Angiotensin II Monoclonal Antibody	131	200 μ g	3 rd generation anti-idiotypic	Mouse	EIA
C03166	Bradykinin		500 dtn	Bradykinin-OVA	Rabbit	RIA
A03481	CGRP ((human)/rat) Monoclonal Antibody	83	200 μ g	Rat CGRP α -KLH	Mouse	EIA
A03483	CGRP ((human)/rat) Monoclonal Antibody	72	200 μ g	Rat CGRP α -KLH	Mouse	EIA
C03169	Leucine Enkephalin		500 dtn	Leucine-OVA Enkephalin	Rabbit	RIA
C03170	Methionine Enkephalin		500 dtn	Methionine-OVA Enkephalin	Rabbit	RIA
C03167	Endorphin β (human)		500 dtn	Human β Endorphin-OVA	Rabbit	RIA
C03168	Endorphin β (camel)		500 dtn	Camel β Endorphin-OVA	Rabbit	RIA
A03560	Endothelin (human) Monoclonal Antibody	18	200 μ g	Human Endothelin-BSA	Mouse	EIA
A03561	Endothelin (human) Monoclonal Antibody	4	200 μ g	Human Endothelin-BSA	Mouse	EIA
A03881	AcSDKP		500 dtn	AcSDKP-KLH	Rabbit	EIA
A03080	Substance P		500 dtn	Substance P-BSA	Rabbit	EIA
A03081	Substance P Monoclonal Antibody	SP14	200 μ g	Substance P-BSA	Mouse	EIA
C03082	Substance P		500 dtn	Substance P-OVA	Rabbit	RIA

BSA: Bovine Serum Albumin; EIA: Enzyme Immunoassay; KLH: Keyhole Limpet Hemocyanin; OVA: Ovalbumin; RIA: Radio Immunoassay

Prostaglandins / Thromboxanes

Prostaglandins

Reference	Designation	Clone	Size	Immunogen	Host	Applications
C03027	Prostaglandin A1		500 dtn	PGB1-BSA	Rabbit	RIA
C03028	Prostaglandin B1		500 dtn	PGB1-BSA	Rabbit	RIA
C03026	Prostaglandin B1/B2 Monoclonal Antibody	36N7	500 dtn	PGE2-THYR	Mouse	RIA
C03046	Prostaglandin E1		500 dtn	PGE1-BSA	Sheep	RIA
C03019	6-keto Prostaglandin E1		500 dtn	6-keto PGE1-BSA	Rabbit	RIA
C03011	Prostaglandin E2 Monoclonal Antibody	8E57	200 µg	PGE2-KLH	Mouse	RIA
C03049	13,14-dihydro-15-keto Prostaglandin E2		500 dtn	13,14-dihydro-15-keto PGE2-BSA	Rabbit	RIA
C03050	Prostaglandin F1 α		500 dtn	PGF1 α -BSA	Rabbit	RIA
A03013	6-keto Prostaglandin F1 α		500 dtn	6-keto PGF1 α -BSA	Rabbit	EIA
C03051	6-keto Prostaglandin F1 α		500 dtn	6-keto PGF1 α -BSA	Rabbit	RIA
C03052	6,15-diketo Prostaglandin F1 α		500 dtn	6,15-diketo PGF1 α -BSA	Rabbit	RIA
A03015	Prostaglandin F2 α		500 dtn	PGF2 α -OVA	Sheep	EIA
C03054	Prostaglandin F2 α		500 dtn	PGF2 α -BSA	Rabbit	RIA
C03056	9 α ,11 β Prostaglandin F2		500 dtn	9 α ,11 β PGF2-OVA	Rabbit	RIA
C03016	13,14-dihydro-15-keto Prostaglandin F2 α		500 dtn	13,14-dihydro-15-keto PGF2 α -BSA	Rabbit	RIA

BSA: Bovine Serum Albumin; EIA: Enzyme Immunoassay; KLH: Keyhole Limpet Hemocyanin; OVA: Ovalbumin; RIA: Radio Immunoassay; THYR: Thyroglobulin

Thromboxanes

Reference	Designation	Size	Immunogen	Host	Applications
A03040	Thromboxane B2	500 dtn	TXB2-BSA	Rabbit	EIA
C03043	Thromboxane B2	500 dtn	TXB2-BSA	Rabbit	RIA
A03041	2,3-dinor Thromboxane B2	500 dtn	TXB2-BSA	Rabbit	EIA
C03044	2,3-dinor Thromboxane B2	500 dtn	TXB2-BSA	Rabbit	RIA
A03042	11-dehydro Thromboxane B2	500 dtn	TXB2-BSA	Rabbit	EIA
C03045	11-dehydro Thromboxane B2	500 dtn	11-dehydro TXB2-OVA	Rabbit	RIA

BSA: Bovine Serum Albumin; EIA: Enzyme Immunoassay; OVA: Ovalbumin; RIA: Radio Immunoassay

Biochemicals & CYP450s

Introduction to biochemicals & CYP450s

Xenobiotic biotransformation is the principal mechanism for maintaining homeostasis during organism exposure to foreign molecules such as drugs. It is accomplished by a limited number of enzymes with broad substrate specificities. Reactions catalyzed by xenobiotic-biotransforming enzymes are divided into two groups, called phase I and phase II, leading to an increase in hydrophilicity of xenobiotic, enhancing greatly their elimination.

Among the phase I biotransforming enzymes, cytochromes P450 (CYP450) rank first in terms of oxydation catalytic versatility and the broad number of xenobiotics they detoxify or activate to reactive intermediates, that may or may not be taken in charge by phase II enzymes.

Being the major elimination route for many drugs, P450 enzymes play a very important role in the detoxication of xenobiotics, but may also lead to toxic or tumorigenic metabolites.

Bertin Pharma offers a large range of biochemicals for metabolism studies (probe substrates, metabolites and inhibitors, most of which are listed in the draft FDA guidance #6695 dft) as well as microsomes containing recombinant human CYP450s.

Those metabolites are either produced by chemical synthesis or by biotransformation - biocatalysis reactions. Upon request, Bertin Pharma can provide with bulk quantities any of those biochemicals.

Bertin Pharma also proposes a fully integrated analytical and preparative platform using chemical synthesis, biotransformation or chemoenzymatic technologies for the production of conjugated metabolites.

Human Cytochrome P450 1A1 YR

M40003

- > **Size** 1 nmol
- > **Contents** human CYP1A1 and yeast CYP-reductase coexpressed in *Saccharomyces cerevisiae*
storage buffer: 50mM tris (pH7.4), 1 mM EDTA, 20 % glycerol
- > **Typical data** P450 concentration (1 nmol/mL), protein concentration (9.5 mg/mL), specific content (105 pmol/mg protein),
cytochrome c reductase activity (1200 nmol/min/mg protein)
activity value (30 pmol product/min/pmol P450)
- > **QC assay method** 7-Ethoxyresorufin-O-Deethylase
- > **Stability** >2 years at -80°C
- > **Shipping** dry ice

Human Cytochrome P450 1A2 YR

M40004

- > **Size** 1 nmol
- > **Contents** human CYP1A2 and yeast CYP-reductase coexpressed in *Saccharomyces cerevisiae*
storage buffer: 50 mM tris (pH7.4), 1 mM EDTA, 20 % glycerol
- > **Typical data** P450 concentration (1 nmol/mL), protein concentration (52 mg/mL), specific content (19 pmol/mg protein),
cytochrome c reductase activity (1100 nmol/min/mg protein)
activity value (2.4 pmol product/min/pmol P450)
- > **QC assay method** 7-Ethoxyresorufin-O-Deethylase
- > **Stability** >2 years at -80°C
- > **Shipping** dry ice

Human Cytochrome P450 1B1 YR

M40005

- > **Size** 1 nmol
- > **Contents** human CYP1B1 and yeast CYP-reductase coexpressed in *Saccharomyces cerevisiae*
storage buffer: 50mM tris (pH7.4), 1 mM EDTA, 20 % glycerol
- > **Typical data** P450 concentration (0.5 nmol/mL), protein concentration (85 mg/mL), specific content (6 pmol/mg protein),
cytochrome c reductase activity (960 nmol/min/mg protein)
activity value (3.1 pmol product/min/pmol P450)
- > **QC assay method** 7-Ethoxyresorufin-O-Deethylase
- > **Stability** >2 years at -80°C
- > **Shipping** dry ice

Human Cytochrome P450 2A6 HR

M41006

- > **Size** 1 nmol
- > **Contents** human CYP2A6 and human CYP-reductase coexpressed in *Saccharomyces cerevisiae*
storage buffer: 50 mM tris (pH7.4), 1 mM EDTA, 20 % glycerol
- > **Typical data** P450 concentration (1 nmol/mL), protein concentration (133 mg/mL), specific content (7.5 pmol/mg protein),
cytochrome c reductase activity (47 nmol/min/mg protein)
activity value (2.1 pmol product/min/pmol P450 without b5)
activity value (3.3 pmol product/min/pmol P450 with b5)
- > **QC assay method** Coumarin-7-Hydroxylase
- > **Stability** >2 years at -80°C
- > **Shipping** dry ice

CYP450s

Human Cytochrome P450 2A6 HR + Cyt. b5

M41106

- > **Size** 1 nmol
- > **Contents** human CYP2A6 and human CYP-reductase coexpressed in *Saccharomyces cerevisiae*, co-expressed with human cytochrome b5
storage buffer: 50 mM tris (pH7.4), 1 mM EDTA, 20 % glycerol
- > **Typical data** P450 concentration (1 nmol/mL), protein concentration (133 mg/mL), specific content (7.5 pmol/mg protein),
cytochrome c reductase activity (47 nmol/min/mg protein)
activity value (3.3 pmol product/min/pmol P450 with b5)
- > **QC assay method** Coumarin-7-Hydroxylase
- > **Stability** >2 years at -80°C
- > **Shipping** dry ice

Human Cytochrome P450 2B6 HR

M41007

- > **Size** 1 nmol
- > **Contents** human CYP2B6 and human CYP-reductase coexpressed in *Saccharomyces cerevisiae*
storage buffer: 50mM tris (pH7.4), 1 mM EDTA, 20 % glycerol
- > **Typical data** P450 concentration (1 nmol/mL), protein concentration (19.4 mg/mL), specific content (51.5 pmol/mg protein),
cytochrome c reductase activity (51 nmol/min/mg protein)
activity value (0.2 pmol product/min/pmol P450 without b5)
activity value (8 pmol product/min/pmol P450 with b5)
- > **QC assay method** 7-Ethoxy-(4-Trifluoromethyl) Coumarin-Deethylase
- > **Stability** >2 years at -80°C
- > **Shipping** dry ice

Human Cytochrome P450 2B6 HR + Cyt. b5

M41107

- > **Size** 1 nmol
- > **Contents** human CYP2B6 and human CYP-reductase coexpressed in *Saccharomyces cerevisiae* mixed
with human cytochrome b5
storage buffer: 50mM tris (pH7.4), 1 mM EDTA, 20 % glycerol
- > **Typical data** P450 concentration (1 nmol/mL), protein concentration (19.4 mg/mL), specific content (51.5 pmol/mg protein),
cytochrome c reductase activity (51 nmol/min/mg protein)
activity value (8 pmol product/min/pmol P450 with b5)
- > **QC assay method** 7-Ethoxy-(4-Trifluoromethyl) Coumarin-Deethylase
- > **Stability** >2 years at -80°C
- > **Shipping** dry ice

Human Cytochrome P450 2B6 YR

M40007

- > **Size** 1 nmol
- > **Contents** human CYP2B6 and yeast CYP-reductase coexpressed in *Saccharomyces cerevisiae*
storage buffer: 50mM tris (pH7.4), 1 mM EDTA, 20 % glycerol
- > **Typical data** P450 concentration (1 nmol/mL), protein concentration (14 mg/mL), specific content (71.4 pmol/mg protein),
cytochrome c reductase activity (1570 nmol/min/mg protein)
activity value (15 pmol product/min/pmol P450)
- > **QC assay method** 7-Ethoxy-(4-Trifluoromethyl) Coumarin-Deethylase
- > **Stability** >2 years at -80°C
- > **Shipping** dry ice

Human Cytochrome P450 2C8 YR

M40008

- > **Size** 1 nmol
- > **Contents** human CYP2C8 and yeast CYP-reductase coexpressed in *Saccharomyces cerevisiae*
storage buffer: 50mM tris (pH7.4), 1 mM EDTA, 20 % glycerol
- > **Typical data** P450 concentration (1 nmol/mL), protein concentration (24.5 mg/mL), specific content (41 pmol/mg protein),
cytochrome c reductase activity (984 nmol/min/mg protein)
activity value (4.5 pmol product/min/pmol P450)
- > **QC assay method** Diclofenac-4'-Hydroxylase
- > **Stability** >2 years at -80°C
- > **Shipping** dry ice

Human Cytochrome P450 2C9 YR

M40009

- > **Size** 1 nmol
- > **Contents** human CYP2C9 and yeast CYP-reductase coexpressed in *Saccharomyces cerevisiae*
storage buffer: 50mM tris (pH7.4), 1 mM EDTA, 20 % glycerol
- > **Typical data** P450 concentration (1 nmol/mL), protein concentration (12.5 mg/mL), specific content (80 pmol/mg protein),
cytochrome c reductase activity (3000 nmol/min/mg protein)
activity value (133 pmol product/min/pmol P450)
- > **QC assay method** Diclofenac-4'-Hydroxylase
- > **Stability** >2 years at -80°C
- > **Shipping** dry ice

Human Cytochrome P450 2C18 YR

M40010

- > **Size** 1 nmol
- > **Contents** human CYP2C18 and yeast CYP-reductase coexpressed in *Saccharomyces cerevisiae*
storage buffer: 50mM tris (pH7.4), 1 mM EDTA, 20 % glycerol
- > **Typical data** P450 concentration (1 nmol/mL), protein concentration (13.5 mg/mL), specific content (74 pmol/mg protein),
cytochrome c reductase activity (2624 nmol/min/mg protein)
activity value (1.9 pmol product/min/pmol P450)
- > **QC assay method** Diclofenac-4'-Hydroxylase
- > **Stability** >2 years at -80°C
- > **Shipping** dry ice

Human Cytochrome P450 2C19 YR

M40015

- > **Size** 1 nmol
- > **Contents** human CYP2C19 and yeast CYP-reductase coexpressed in *Saccharomyces cerevisiae*
Storage buffer: 50 mM tris (pH7.4), 1 mM EDTA, 20 % glycerol
- > **Typical data** P450 concentration (1 nmol/mL), protein concentration (153 mg/mL), specific content (6.5 pmol/mg protein),
cytochrome c (reductase activity 300 nmol/min/mg protein)
activity value (2.9 pmol product/min/pmol P450)
- > **QC assay method** Diclofenac-4'-Hydroxylase
- > **Stability** >2 years at -80°C
- > **Shipping** dry ice

CYP450s

Human Cytochrome P450 2D6 YR

M40011

- > **Size** 1 nmol
- > **Contents** human CYP2D6 and yeast CYP-reductase coexpressed in *Saccharomyces cerevisiae*
storage buffer: 50mM tris (pH7.4), 1 mM EDTA, 20 % glycerol
- > **Typical data** P450 concentration (1 nmol/mL), protein concentration (64.2 mg/mL), specific content (15.6 pmol/mg protein),
cytochrome c reductase activity (476 nmol/min/mg protein)
activity value (166 pmol product/min/pmol P450)
- > **QC assay method** Dextromethorphan-O-Demethylase
- > **Stability** >2 years at -80°C
- > **Shipping** dry ice

Human Cytochrome P450 2E1 YR

M40012

- > **Size** 1 nmol
- > **Contents** human CYP2E1 and yeast CYP-reductase coexpressed in *Saccharomyces cerevisiae*
storage buffer: 50mM tris (pH7.4), 1 mM EDTA, 20 % glycerol
- > **Typical data** P450 concentration (1 nmol/mL), protein concentration (15 mg/mL), specific content (65 pmol/mg protein),
cytochrome c reductase activity (1335 nmol/min/mg protein)
activity value (14 pmol product/min/pmol P450)
- > **QC assay method** p-Nitrophenol Hydroxylase
- > **Stability** >2 years at -80°C
- > **Shipping** dry ice

Human Cytochrome P450 3A4 HR

M41013

- > **Size** 1 nmol
- > **Contents** human CYP3A4 and human CYP-reductase coexpressed in *Saccharomyces cerevisiae*
storage buffer: 50mM tris (pH7.4), 1 mM EDTA, 20 % glycerol
- > **Typical data** P450 concentration (1 nmol/mL), protein concentration (15 mg/mL), specific content (67 pmol/mg protein),
cytochrome c reductase activity (40 nmol/min/mg protein)
activity value (1.5 pmol product/min/pmol P450 without b5)
activity value (13.6 pmol product/min/pmol P450 with b5)
- > **QC assay method** Testosterone-6 β -Hydroxylase
- > **Stability** >2 years at -80°C
- > **Shipping** dry ice

Human Cytochrome P450 3A4 HR + Cyt. b5

M41113

- > **Size** 1 nmol
- > **Contents** human CYP3A4 and human CYP-reductase coexpressed in *Saccharomyces cerevisiae*, co-expressed
with human cytochrome b5
storage buffer: 50mM tris (pH7.4), 1 mM EDTA, 20 % glycerol
- > **Typical data** P450 concentration (1 nmol/mL), protein concentration (15 mg/mL), specific content (67 pmol/mg protein),
cytochrome c reductase activity (40 nmol/min/mg protein)
activity value (13.6 pmol product/min/pmol P450 with b5)
- > **QC assay method** Testosterone-6 β -Hydroxylase
- > **Stability** >2 years at -80°C
- > **Shipping** dry ice

Human Cytochrome P450 3A5 HR

M41014

- > **Size** 1 nmol
- > **Contents** human CYP3A5 and human CYP-reductase coexpressed in *Saccharomyces cerevisiae*
storage buffer: 50mM tris (pH7.4), 1 mM EDTA, 20 % glycerol
- > **Typical data** P450 concentration (1 nmol/mL), protein concentration (26 mg/mL), specific content (39 pmol/mg protein),
cytochrome c reductase activity (96 nmol/min/mg protein)
activity value (0.1 pmol product/min/pmol P450 without b5)
activity value (3 pmol product/min/pmol P450 with b5)
- > **QC assay method** Testosterone-6 β -Hydroxylase
- > **Stability** >2 years at -80°C
- > **Shipping** dry ice

Human Cytochrome P450 3A5 HR + Cyt. b5

M41114

- > **Size** 1 nmol
- > **Contents** human CYP3A5 and human CYP-reductase coexpressed in *Saccharomyces cerevisiae*, mixed
with human cytochrome b5
storage buffer: 50mM tris (pH7.4), 1 mM EDTA, 20 % glycerol
- > **Typical data** P450 concentration (1 nmol/mL), protein concentration (26 mg/mL), specific content (39 pmol/mg protein),
cytochrome c reductase activity (96 nmol/min/mg protein)
activity value (3 pmol product/min/pmol P450 with b5)
- > **QC assay method** Testosterone-6 β -Hydroxylase
- > **Stability** >2 years at -80°C
- > **Shipping** dry ice

Human Cytochrome b5

M11001

- > **Size** 2 nmol
- > **Contents** protein purified from an *Escherichia coli* strain expressing the human cytochrome b5
storage buffer: 10mM phosphate Na/K (pH 7.4), 0.2 % Na cholate
- > **Typical data** 10 nmol/mL
- > **Stability** >2 years at -80°C
- > **Shipping** dry ice

Human Cytochrome P450 Control HR

M41002

- > **Size** 10 mg
- > **Contents** yeast microsomes isolated from a *Saccharomyces cerevisiae* strain expressing only the human
CYP-reductase
storage buffer: 50mM tris (pH7.4), 1 mM EDTA, 20 % glycerol
- > **Typical data** protein concentration (10 mg/mL), cytochrome c reductase activity (61 nmol/min/mg protein)
- > **Stability** >2 years at -80°C
- > **Shipping** dry ice

Human Cytochrome P450 Control YR

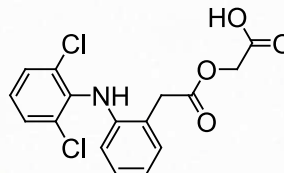
M40002

- > **Size** 10 mg
- > **Contents** yeast microsomes isolated from a *Saccharomyces cerevisiae* strain expressing only the yeast CYP-reductase
storage buffer: 50mM tris (pH7.4), 1 mM EDTA, 20 % glycerol
- > **Typical data** protein concentration (10 mg/mL), cytochrome c reductase activity (554 nmol/min/mg protein)
- > **Stability** >2 years at -80°C
- > **Shipping** dry ice

Aceclofenac

AP8073

- > CAS number 89796-99-6
- > Molecular weight 354.19
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 99\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

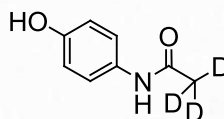


$\text{C}_{16}\text{H}_{13}\text{Cl}_2\text{NO}_4$

Acetaminophen-D₃

MI7988

- > CAS number 60902-28-5
- > Molecular weight 154.18
- > Size 25 mg; 50 mg; 100 mg
- > % purity $> 95\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

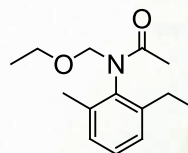


$\text{C}_8\text{H}_6\text{NO}_2\text{D}_3$

Acetochlor (N-ethoxymethyl-N-(2-ethyl-6-methyl-phenyl)-acetamide)

MR8063

- > CAS number 34256-82-1
- > Molecular weight 235.33
- > Size 5 mg; 10 mg; 25 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

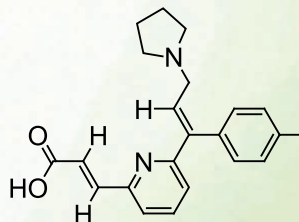


$\text{C}_{14}\text{H}_{21}\text{NO}_2$

Acrivastine

AP8074

- > CAS number 87848-99-5
- > Molecular weight 348.45
- > Size 10 mg; 25 mg; 50 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

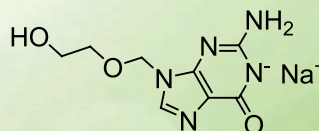


$\text{C}_{22}\text{H}_{24}\text{N}_2\text{O}_2$

Acyclovir Sodium Salt

AP8075

- > CAS number 69657-51-8
- > Molecular weight 247.19
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 99\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice



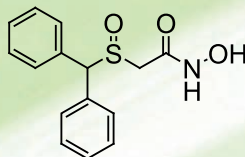
$\text{C}_8\text{H}_{10}\text{N}_5\text{NaO}_3$

Substrates / APIs

Adrafinil

AP8076

- > CAS number 63547-13-7
- > Molecular weight 289.36
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

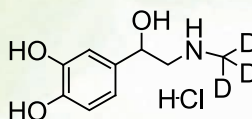


$\text{C}_{15}\text{H}_{15}\text{NO}_3\text{S}$

Adrenaline-D₃ Hydrochloride ((+/-)-epinephrine-D₃)

MI8050

- > CAS number 329-63-5 (1)
- > Molecular weight 222.69
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

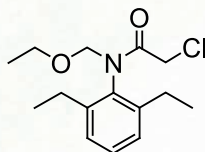


$\text{C}_9\text{H}_{11}\text{ClNO}_3\text{D}_3$

Alachlor (2-chloro-N-(2,6-diethyl-phenyl)-N-ethoxymethyl-acetamide)

MR8065

- > CAS number 15972-60-8
- > Molecular weight 283.80
- > Size 5 mg; 10 mg; 25 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

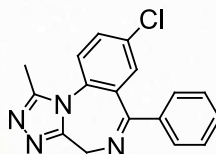


$\text{C}_{15}\text{H}_{22}\text{ClNO}_2$

Alprazolam

AP8077

- > CAS number 28981-97-7
- > Molecular weight 308.77
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

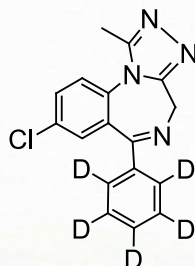


$\text{C}_{17}\text{H}_{13}\text{ClN}_4$

Alprazolam-D₅

MI7888

- > CAS number 125229-61-0
- > Molecular weight 313.80
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity $> 95\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice



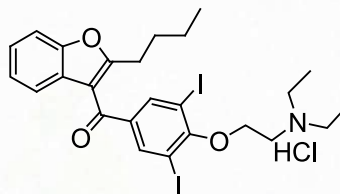
$\text{C}_{17}\text{H}_8\text{ClN}_4\text{D}_5$

(1) for non labelled molecule

Amiodarone Hydrochloride

M02026

- > CAS number 19774-82-4
- > Molecular weight 681.77
- > Size 50 mg; 100 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

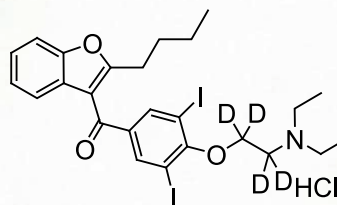


$\text{C}_{25}\text{H}_{30}\text{ClI}_2\text{NO}_3$

Amiodarone-D₄ Hydrochloride

MI7891

- > CAS number 19774-82-4 (1)
- > Molecular weight 685.81
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity $> 95\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

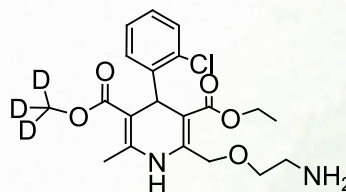


$\text{C}_{25}\text{H}_{26}\text{ClI}_2\text{NO}_3\text{D}_4$

Amlodipine-D₃

MI7974

- > CAS number 88150-42-9
- > Molecular weight 411.9
- > Size 10 mg; 25 mg; 50 mg
- > % purity $> 95\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

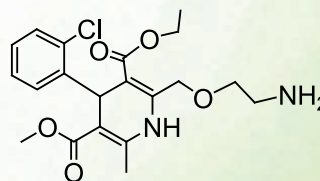


$\text{C}_{20}\text{H}_{22}\text{Cl}_2\text{N}_2\text{O}_5\text{D}_3$

Amlodipine

AP8078

- > CAS number 88150-42-9
- > Molecular weight 408.89
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

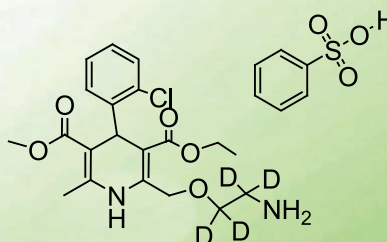


$\text{C}_{20}\text{H}_{25}\text{Cl}_2\text{N}_2\text{O}_5$

Amlodipine-D₄ Besylate

MI7981

- > CAS number 88150-42-9
- > Molecular weight 571.09
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity $> 95\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice



$\text{C}_{26}\text{H}_{27}\text{Cl}_2\text{N}_2\text{O}_8\text{SD}_4$

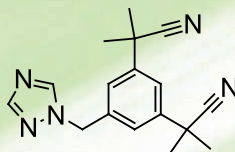
(1) for non labelled molecule

Substrates / APIs

Anastrozole

AP8079

- > CAS number 120511-73-1
- > Molecular weight 293.37
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

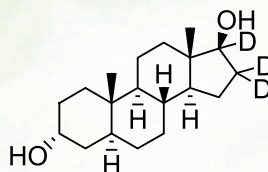


$\text{C}_{17}\text{H}_{19}\text{N}_5$

Androstane-3 α -17 β -Diol- D_3

MI8248

- > CAS number 79037-33-5
- > Molecular weight 295.48
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity $> 99\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

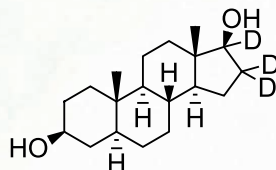


$\text{C}_{19}\text{H}_{29}\text{O}_2\text{D}_3$

Androstane-3 β -17 β -Diol- D_3

MI8250

- > CAS number 571-20-0 (1)
- > Molecular weight 295.48
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity $> 99\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

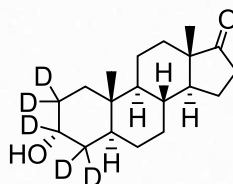


$\text{C}_{19}\text{H}_{29}\text{O}_2\text{D}_3$

Androsterone- D_5

MI8247

- > CAS number 53-41-8 (1)
- > Molecular weight 295.48
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity $> 99\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

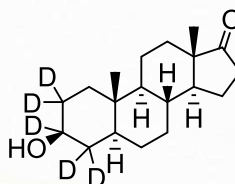


$\text{C}_{19}\text{H}_{25}\text{O}_2\text{D}_5$

Epi Androsterone- D_5

MI8237

- > CAS number 481-29-8 (1)
- > Molecular weight 295.48
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity $> 99\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice



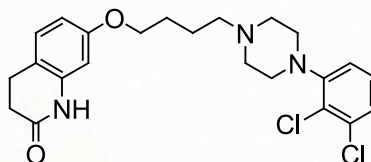
$\text{C}_{19}\text{H}_{25}\text{O}_2\text{D}_5$

(1) for non labelled molecule

Aripiprazole

AP8080

- > CAS number 129722-12-9
- > Molecular weight 448.38
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 99\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

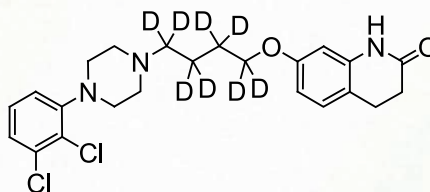


$\text{C}_{23}\text{H}_{27}\text{Cl}_2\text{N}_3\text{O}_2$

Aripiprazole-D₈

MI7894

- > CAS number 129722-12-9 (1)
- > Molecular weight 456.44
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity $> 95\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

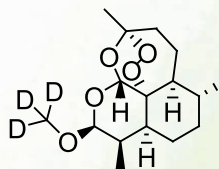


$\text{C}_{23}\text{H}_{19}\text{Cl}_2\text{N}_3\text{O}_2\text{D}_8$

Artemether-D₃

MI8203

- > CAS number 93787-85-0
- > Molecular weight 301.40
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity $> 95\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

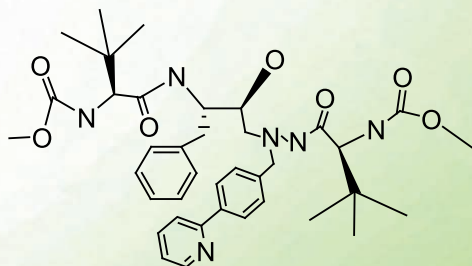


$\text{C}_{16}\text{H}_{23}\text{O}_5\text{D}_3$

Atazanavir

AP8081

- > CAS number 198904-31-3
- > Molecular weight 704.87
- > Size 10 mg; 25 mg; 50 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice



$\text{C}_{38}\text{H}_{52}\text{N}_6\text{O}_7$

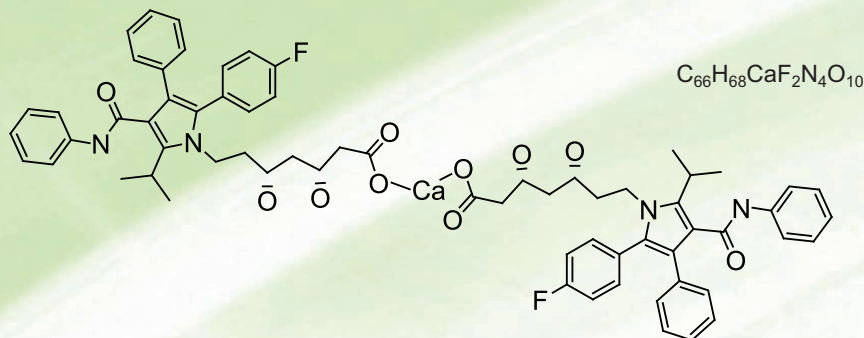
(1) for non labelled molecule

Substrates / APIs

Atorvastatin Calcium Salt

AP8082

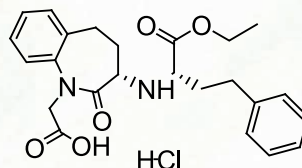
- > CAS number 134523-03-8
- > Molecular weight 1155.34
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice



Benazepril Hydrochloride

AP8083

- > CAS number 86541-74-4
- > Molecular weight 460.96
- > Size 10 mg; 25 mg; 50 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

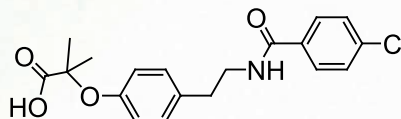


$\text{C}_{24}\text{H}_{29}\text{ClN}_2\text{O}_5$

Bezafibrate

AP8084

- > CAS number 41859-67-0
- > Molecular weight 361.83
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

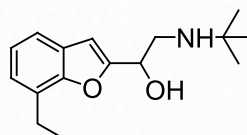


$\text{C}_{19}\text{H}_{20}\text{ClNO}_4$

Bufuralol

M02027

- > CAS number 54340-62-4
- > Molecular weight 261.36
- > Size 5 mg; 25 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

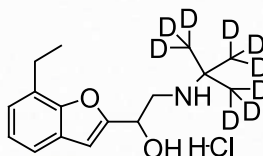


$\text{C}_{16}\text{H}_{23}\text{NO}_2$

Bufuralol-D₉ Hydrochloride

MI8034

- > CAS number 59652-29-8 (1)
- > Molecular weight 306.88
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice



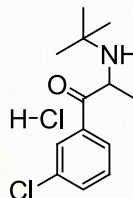
$\text{C}_{16}\text{H}_{15}\text{ClNO}_2\text{D}_9$

(1) for non labelled molecule

Bupropion Hydrochloride

M02024

- > CAS number 31677-93-7
- > Molecular weight 276.20
- > Size 5 mg
- > % purity $\geq 98\%$
- > Storage temp. RT
- > Shipping RT

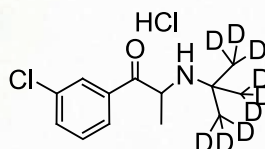


$C_{13}H_{19}Cl_2NO$

Bupropion-D₉ Hydrochloride

MI7895

- > CAS number 31677-93-7 (1)
- > Molecular weight 285.26
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity $> 95\%$
- > Storage temp. $+4^{\circ}C$
- > Shipping wet ice

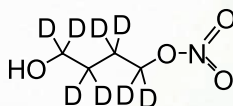


$C_{13}H_{10}Cl_2NOD_9$

1,4 Butanediol Mononitrate-D₈

MI8060

- > CAS number 22911-39-3 (1)
- > Molecular weight 143.17
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}C$
- > Shipping wet ice

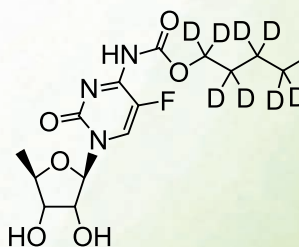


$C_4HNO_4D_8$

Capecitabine-D₈

MI7986

- > CAS number 154361-50-9 (1)
- > Molecular weight 367.41
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity $> 95\%$
- > Storage temp. $+4^{\circ}C$
- > Shipping wet ice

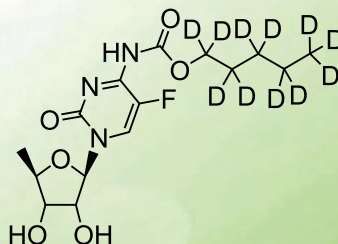


$C_{15}H_{14}FN_3O_6D_8$

Capecitabine-D₁₁

MI7898

- > CAS number 154361-50-9 (1)
- > Molecular weight 370.42
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity $> 95\%$
- > Storage temp. $+4^{\circ}C$
- > Shipping wet ice



$C_{15}H_{11}FN_3O_6D_{11}$

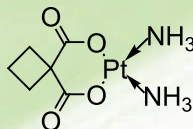
(1) for non labelled molecule

Substrates / APIs

Carboplatin

AP8086

- > CAS number 41575-94-4
- > Molecular weight 371.26
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 99\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

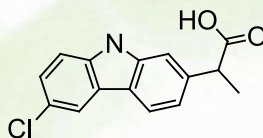


$\text{C}_6\text{H}_{12}\text{N}_2\text{O}_4\text{Pt}$

Carprofen

AP8087

- > CAS number 53716-49-7
- > Molecular weight 273.72
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

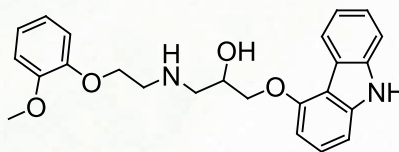


$\text{C}_{15}\text{H}_{12}\text{ClNO}_2$

Carvedilol

AP8088

- > CAS number 72956-09-3
- > Molecular weight 406.49
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 99\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

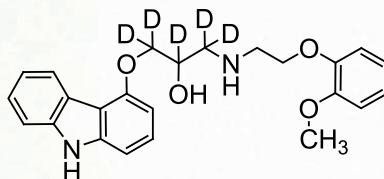


$\text{C}_{24}\text{H}_{26}\text{N}_2\text{O}_4$

Carvedilol-D₅

MI7993

- > CAS number 72956-09-3 (1)
- > Molecular weight 411.52
- > Size 5 mg; 10 mg; 25 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

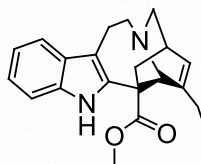


$\text{C}_{24}\text{H}_{21}\text{N}_2\text{O}_4\text{D}_5$

Catharanthine

AP8089

- > CAS number 2468-21-5
- > Molecular weight 336.44
- > Size 10 mg; 25 mg; 50 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice



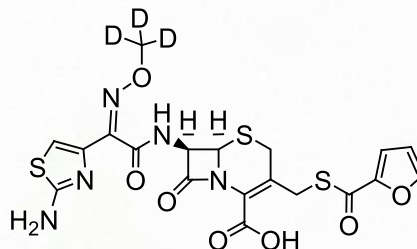
$\text{C}_{21}\text{H}_{24}\text{N}_2\text{O}_2$

(1) for non labelled molecule

Ceftiofur-D₃

MI7903

- > CAS number 80370-57-6 (1)
- > Molecular weight 526.59
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

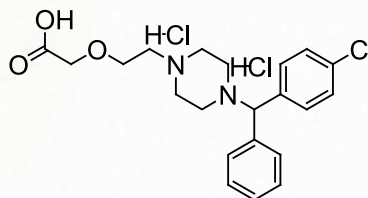


C₁₉H₁₄N₅O₇S₃D₃

Cetirizine Dihydrochloride

AP8090

- > CAS number 83881-52-1
- > Molecular weight 461.82
- > Size 50 mg; 100 mg; 250 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice

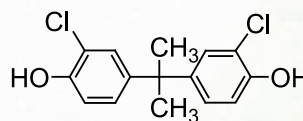


C₂₁H₂₇Cl₃N₂O₃

2-Chloro-4-[1-(3-chloro-4-hydroxy-phenyl)-1-methyl-ethyl]-Phenol

MR8049

- > CAS number 79-98-1
- > Molecular weight 297.18
- > Size 5 mg; 10 mg; 25 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice

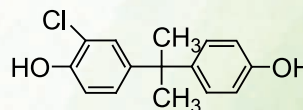


C₁₅H₁₄Cl₂O₂

2-Chloro-4-[1-(4-hydroxy-phenyl)-1-methyl-ethyl]-Phenol

MR8046

- > CAS number 74129-35-1
- > Molecular weight 262.74
- > Size 5 mg; 10 mg; 25 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice

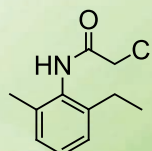


C₁₅H₁₅ClO₂

2-Chloro-N-(2-ethyl-6-methyl-phenyl)-Acetamide

MR8062

- > CAS number 32428-71-0
- > Molecular weight 211.69
- > Size 5 mg; 10 mg; 25 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice



C₁₁H₁₄ClNO

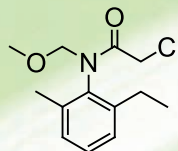
(1) for non labelled molecule

Substrates / APIs

2-Chloro-N-(2-ethyl-6-methyl-phenyl)-N-Methoxymethyl-Acetamide

MR8064

- > CAS number 67353-23-3
- > Molecular weight 255.75
- > Size 5 mg; 10 mg; 25 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

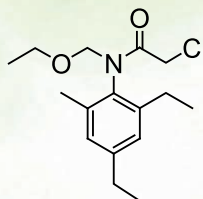


$\text{C}_{13}\text{H}_{18}\text{ClNO}_2$

2-Chloro-N-(2,4-diethyl-6-methyl-phenyl)-N-Ethoxymethyl-Acetamide

MR8067

- > CAS number 297.83
- > Molecular weight 297.83
- > Size 5 mg; 10 mg; 25 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

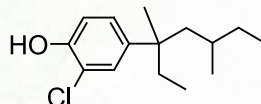


$\text{C}_{16}\text{H}_{24}\text{ClNO}_2$

2-Chloro-4-(1-ethyl-1,3-dimethyl-pentyl)-Phenol

MR8053

- > CAS number 254.80
- > Molecular weight 254.80
- > Size 5 mg; 10 mg; 25 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

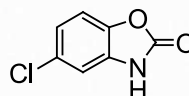


$\text{C}_{15}\text{H}_{23}\text{ClO}$

Chlorzoxazone

M02017

- > CAS number 95-25-0
- > Molecular weight 169.57
- > Size 100 mg
- > % purity $\geq 98\%$
- > Storage temp. RT
- > Shipping RT

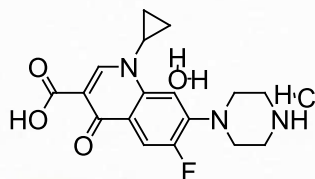


$\text{C}_7\text{H}_4\text{ClNO}_2$

Ciprofloxacin Hydrochloride

AP8091

- > CAS number 83881-52-1
- > Molecular weight 385.83
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice



$\text{C}_{17}\text{H}_{21}\text{ClFN}_3\text{O}_4$

Clonazepam

AP8092

- > CAS number 1622-61-3
- > Molecular weight 315.72
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

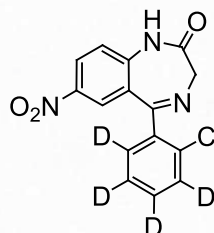


$\text{C}_{15}\text{H}_{10}\text{ClN}_3\text{O}_3$

Clonazepam-D₄

MI7904

- > CAS number 1622-61-3 (1)
- > Molecular weight 319.74
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity $> 95\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

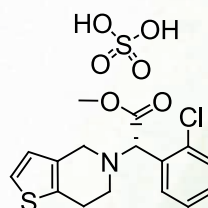


$\text{C}_{15}\text{H}_6\text{ClN}_3\text{O}_3\text{D}_4$

Clopidogrel Hydrogen Sulfate

AP8093

- > CAS number 120202-66-6
- > Molecular weight 419.91
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

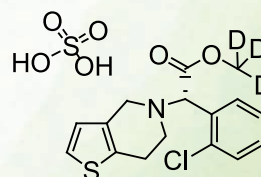


$\text{C}_{16}\text{H}_{18}\text{ClNO}_6\text{S}_2$

Clopidogrel-D₃ Hydrogen Sulfate

MI7907

- > CAS number 120202-66-6 (1)
- > Molecular weight 422.92
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity $> 95\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

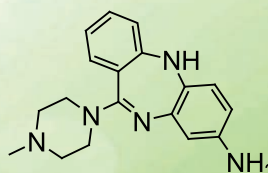


$\text{C}_{16}\text{H}_{15}\text{ClNO}_6\text{S}_2\text{D}_3$

Clozapine

AP8094

- > CAS number 5786-21-0
- > Molecular weight 326.83
- > Size 10 mg; 25 mg; 50 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice



$\text{C}_{18}\text{H}_{19}\text{ClN}_4$

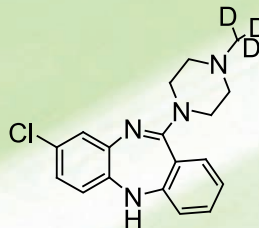
(1) for non labelled molecule

Substrates / APIs

Clozapine-D₃

MI7909

- > CAS number 5786-21-0 (1)
- > Molecular weight 329.85
- > Size 5 mg; 10 mg; 25 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

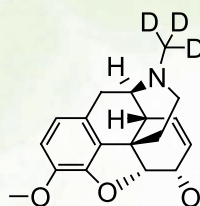


C₁₈H₁₆ClN₄D₃

Codeine-D₃

MI8051

- > CAS number 70420-71-2
- > Molecular weight 302.39
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice

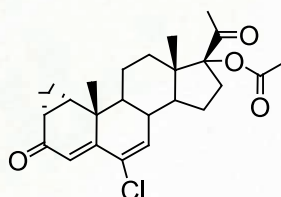


C₁₈H₁₈NO₃D₃

Cyproterone Acetate

AP8095

- > CAS number 427-51-0
- > Molecular weight 416.95
- > Size 50 mg; 100 mg; 250 mg
- > % purity ≥ 97 %
- > Storage temp. +4°C
- > Shipping wet ice

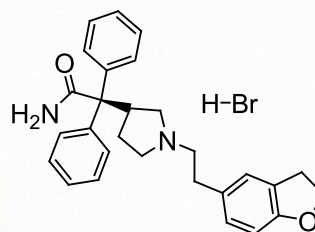


C₂₄H₂₉ClO₄

Darifenacin Hydrobromide

AP8096

- > CAS number 133099-07-7
- > Molecular weight 507.48
- > Size 10 mg; 25 mg; 50 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice

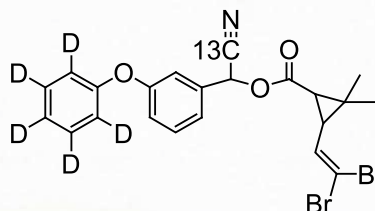


C₂₈H₃₁BrN₂O₂

Deltamethrin-D₅-¹³C (M+6)

MI8045

- > CAS number 52918-63-5 (1)
- > Molecular weight 511.23
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice



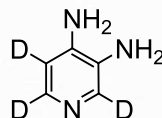
C₂₂H₁₄Br₂NO₃D₅

(1) for non labelled molecule

3,4-Diaminopyridine-D₃

MI7987

- > CAS number 54-96-6 (1)
- > Molecular weight 112.15
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

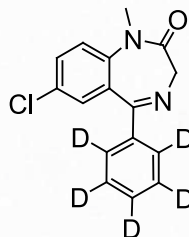


C₅H₄N₃D₃

Diazepam-D₅

MI7911

- > CAS number 65854-76-4
- > Molecular weight 289.78
- > Size 5 mg; 10 mg; 25 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

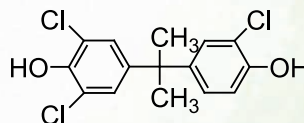


C₁₆H₈ClN₂OD₅

2,6-Dichloro-4-[1-(3-chloro-4-hydroxy-phenyl)-1-methyl-ethyl]-Phenol

MR8048

- > CAS number 40346-55-2
- > Molecular weight 331.63
- > Size 5 mg; 10 mg; 25 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice

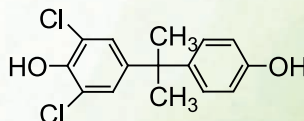


C₁₅H₁₃Cl₃O₂

2,6-Dichloro-4-[1-(4-hydroxy-phenyl)-1-methyl-ethyl]-Phenol

MR8047

- > CAS number 14151-65-6
- > Molecular weight 297.18
- > Size 5 mg; 10 mg; 25 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice

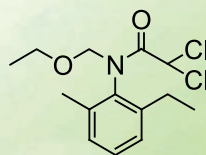


C₁₅H₁₄Cl₂O₂

2,2-Dichloro-N-Ethoxymethyl-N-(2-ethyl-6-methyl-phenyl)-Acetamide

MR8066

- > CAS number 304.22
- > Molecular weight 304.22
- > Size 5 mg; 10 mg; 25 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice



C₁₄H₁₉Cl₂NO₂

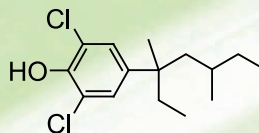
(1) for non labelled molecule

Substrates / APIs

2,6-Dichloro-4-(1-ethyl-1,3-dimethyl-pentyl)-Phenol

MR8054

- > CAS number 289.25
- > Molecular weight 289.25
- > Size 5 mg; 10 mg; 25 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

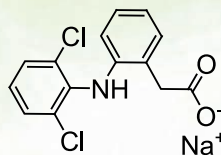


$\text{C}_{15}\text{H}_{22}\text{Cl}_2\text{O}$

Diclofenac Sodium Salt

M02018

- > CAS number 15307-79-6
- > Molecular weight 318.13
- > Size 100 mg
- > % purity $\geq 98\%$
- > Storage temp. RT
- > Shipping RT

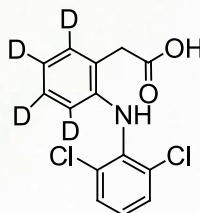


$\text{C}_{14}\text{H}_{10}\text{Cl}_2\text{NNaO}_2$

Diclofenac-D₄

MI7995

- > CAS number 15307-86-5 (1)
- > Molecular weight 300.18
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

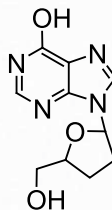


$\text{C}_{14}\text{H}_7\text{Cl}_2\text{NO}_2\text{D}_4$

Didanosine

AP8098

- > CAS number 69655-05-6
- > Molecular weight 236.23
- > Size 10 mg; 25 mg; 50 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

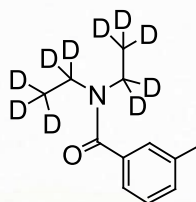


$\text{C}_{10}\text{H}_{12}\text{N}_4\text{O}_3$

N,N-Diethyltoluamide-D₁₀

MI8068

- > CAS number 134-62-3 (1)
- > Molecular weight 201.34
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice



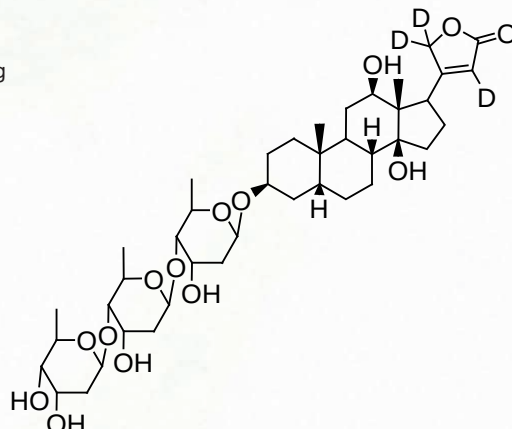
$\text{C}_{12}\text{H}_7\text{NOD}_{10}$

(1) for non labelled molecule

Digoxin-D₃

MI7956

- > CAS number 20830-75-5
- > Molecular weight 778.06
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

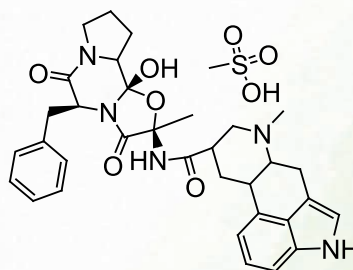


C₄₄H₆₇O₁₁D₃

Dihydroergotamine Methanesulfonate

AP8099

- > CAS number 6190-39-2
- > Molecular weight 679.80
- > Size 10 mg; 25 mg; 50 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice

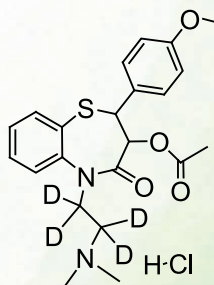


C₃₄H₄₁N₅O₈S

Diltiazem-D₄

MI7971

- > CAS number 112259-41-3
- > Molecular weight 418.55
- > Size 10 mg; 25 mg; 50 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

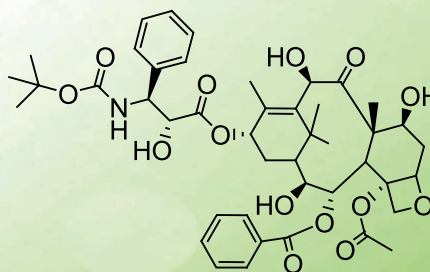


C₂₂H₂₂N₂O₄SD₄

Docetaxel

AP8100

- > CAS number 114977-28-5
- > Molecular weight 821.93
- > Size 50 mg; 100 mg; 250 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice



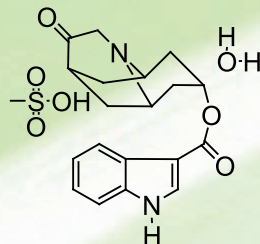
C₄₄H₅₅NO₁₄

Substrates / APIs

Dolasetron Mesylate Monohydrate

AP8101

- > CAS number 115956-13-3
- > Molecular weight 438.50
- > Size 10 mg; 25 mg; 50 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

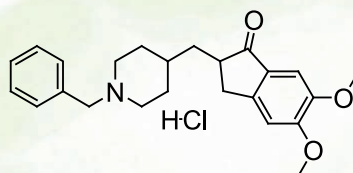


$\text{C}_{20}\text{H}_{26}\text{N}_2\text{O}_7\text{S}$

Donepezil Hydrochloride

AP8102

- > CAS number 120011-70-3
- > Molecular weight 415.96
- > Size 10 mg; 25 mg; 50 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

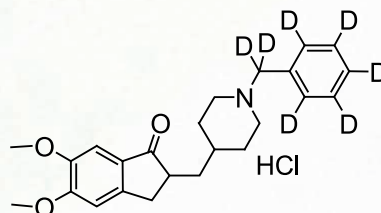


$\text{C}_{24}\text{H}_{30}\text{ClNO}_3$

Donepezil-D₇

MI7913

- > CAS number 120014-06-4 (1)
- > Molecular weight 386.55
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity $> 95\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

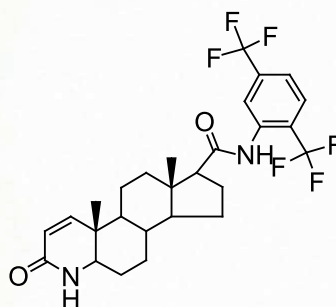


$\text{C}_{24}\text{H}_{22}\text{NO}_3\text{D}_7$

Dutasteride

AP8104

- > CAS number 164656-23-9
- > Molecular weight 528.54
- > Size 10 mg; 25 mg; 50 mg
- > % purity $\geq 99\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

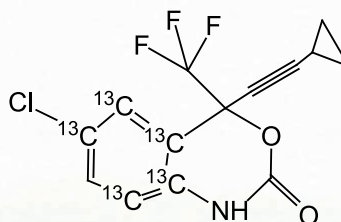


$\text{C}_{27}\text{H}_{30}\text{F}_6\text{N}_2\text{O}_2$

Efavirenz ¹³C₆

MI8014

- > CAS number 154635-17-3
- > Molecular weight 320.63
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice



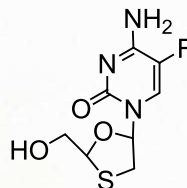
$^{13}\text{C}_6\text{C}_8\text{H}_9\text{ClF}_3\text{NO}_2$

(1) for non labelled molecule

Emtricitabine

AP8105

- > CAS number 143491-57-0
- > Molecular weight 247.25
- > Size 10 mg; 25 mg; 50 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

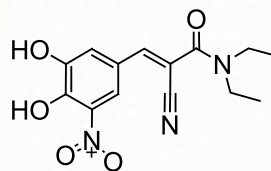


$\text{C}_8\text{H}_{10}\text{FN}_3\text{O}_3\text{S}$

Entacapone

AP8106

- > CAS number 130929-57-6
- > Molecular weight 305.29
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

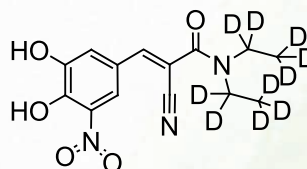


$\text{C}_{14}\text{H}_{15}\text{N}_3\text{O}_5$

Entacapone-D₁₀ (E isomer)

MI7982

- > CAS number 130929-57-6 (1)
- > Molecular weight 315.35
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

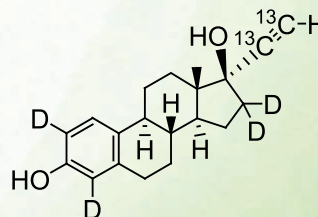


$\text{C}_{14}\text{H}_5\text{N}_3\text{O}_5\text{D}_{10}$

Ethynyl Estradiol M+6

MI8230

- > CAS number 57-63-6 (1)
- > Molecular weight 302.41
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity $> 95\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

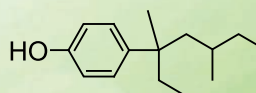


$\text{C}_{20}\text{H}_{20}\text{O}_2\text{D}_4$

4-(1-ethyl-1,3-dimethyl-pentyl)-Phenol

MR8052

- > CAS number 521947-28-4
- > Molecular weight 220.36
- > Size 5 mg; 10 mg; 25 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice



$\text{C}_{15}\text{H}_{24}\text{O}$

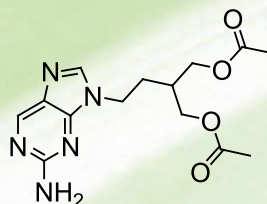
(1) for non labelled molecule

Substrates / APIs

Famciclovir

AP8107

- > CAS number 104227-87-4
- > Molecular weight 321.34
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

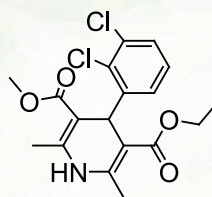


$\text{C}_{14}\text{H}_{19}\text{N}_5\text{O}_4$

Felodipine

AP8108

- > CAS number 72509-76-3
- > Molecular weight 384.26
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

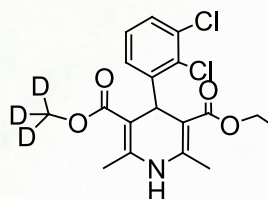


$\text{C}_{18}\text{H}_{19}\text{Cl}_2\text{NO}_4$

Felodipine-D₃

MI7975

- > CAS number 72509-76-3 (1)
- > Molecular weight 387.28
- > Size 10 mg; 25 mg; 50 mg
- > % purity $> 95\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

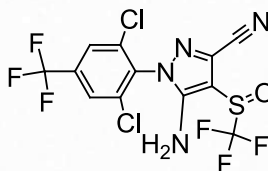


$\text{C}_{18}\text{H}_{16}\text{Cl}_2\text{NO}_4\text{D}_3$

Fipronil

AP8110

- > CAS number 120068-37-3
- > Molecular weight 437.15
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

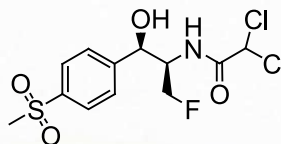


$\text{C}_{12}\text{H}_4\text{Cl}_2\text{F}_6\text{N}_4\text{OS}$

Florfenicol

AP8111

- > CAS number 73231-34-2
- > Molecular weight 358.22
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice



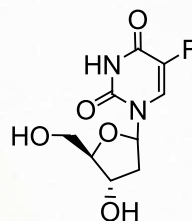
$\text{C}_{12}\text{H}_{14}\text{Cl}_2\text{FNO}_4\text{S}$

(1) for non labelled molecule

Floxuridine

AP8112

- > CAS number 50-91-9
- > Molecular weight 246.20
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

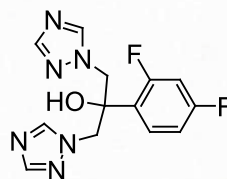


$\text{C}_9\text{H}_{11}\text{FN}_2\text{O}_5$

Fluconazole

AP8113

- > CAS number 86386-73-4
- > Molecular weight 306.28
- > Size 100 mg; 250 mg; 500 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

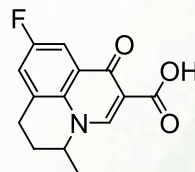


$\text{C}_{13}\text{H}_{12}\text{F}_2\text{N}_6\text{O}$

Flumequine

AP8114

- > CAS number 42835-25-6
- > Molecular weight 261.26
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

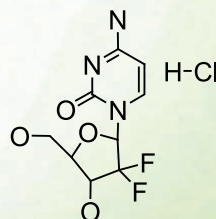


$\text{C}_{14}\text{H}_{12}\text{FNO}_3$

Gemcitabine Hydrochloride

AP8115

- > CAS number 122111-03-9
- > Molecular weight 299.66
- > Size 25 mg; 50 mg; 100 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

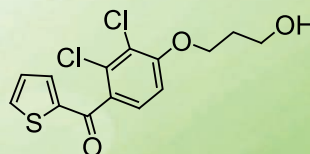


$\text{C}_9\text{H}_{12}\text{ClF}_2\text{N}_3\text{O}_4$

Homo-Tienilic Alcohol

M02002

- > CAS Number 236735-89-0
- > Molecular weight 331.21
- > Size 5 mg
- > % Purity $> 95\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice



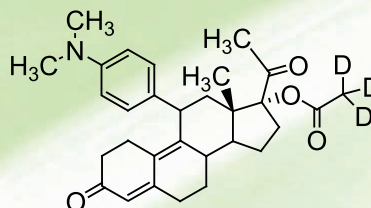
$\text{C}_{14}\text{H}_{12}\text{Cl}_2\text{O}_3\text{S}$

Substrates / APIs

HRP 2000 (VA-2914)-D₃

MI8055

- > CAS number 126784-99-4 (1)
- > Molecular weight 478.65
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice

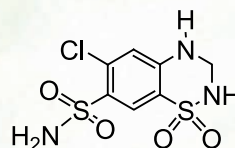


C₃₀H₃₄NO₄D₃

Hydrochlorothiazide

AP8116

- > CAS number 58-93-5
- > Molecular weight 297.74
- > Size 50 mg; 100 mg; 250 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice

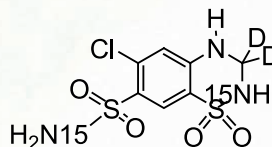


C₇H₈ClN₃O₄S₂

Hydrochlorothiazide-D₂, 15N2

MI7916

- > CAS number 58-93-5 (1)
- > Molecular weight 301.74
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

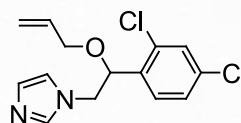


C₇H₆Cl¹⁵N₂NO₄S₂D₂

Imazalil

AP8117

- > CAS number 35554-44-0
- > Molecular weight 297.19
- > Size 50 mg; 100 mg; 250 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice

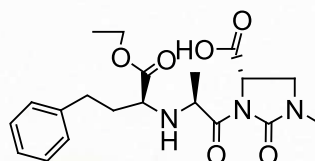


C₁₄H₁₄Cl₂N₂O

Imidapril

AP8118

- > CAS number 89371-37-9
- > Molecular weight 405.45
- > Size 10 mg; 100 mg; 250 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice



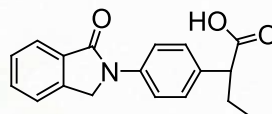
C₂₀H₂₇N₃O₆

(1) for non labelled molecule

Indobufen

AP8119

- > CAS number 63610-08-2
- > Molecular weight 295.34
- > Size 10 mg; 100 mg; 250 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

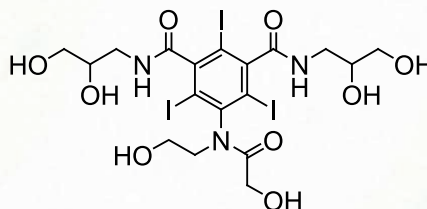


$\text{C}_{18}\text{H}_{17}\text{NO}_3$

Ioversol

AP8120

- > CAS number 87771-40-2
- > Molecular weight 807.12
- > Size 25 mg; 50 mg; 100 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

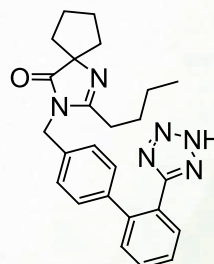


$\text{C}_{18}\text{H}_{24}\text{I}_3\text{N}_3\text{O}_9$

Irbesartan

AP8121

- > CAS number 138402-11-6
- > Molecular weight 428.54
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

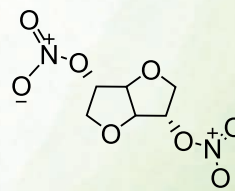


$\text{C}_{25}\text{H}_{28}\text{N}_6\text{O}$

Isosorbide Nitrate

AP8122

- > CAS number 87-33-2
- > Molecular weight 236.14
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

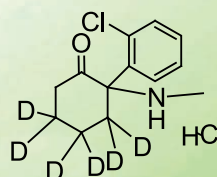


$\text{C}_6\text{H}_8\text{N}_2\text{O}_8$

Ketamine-D₆ Hydrochloride

MI8012

- > CAS number 1867-66-9 (1)
- > Molecular weight 280.23
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity $> 95\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice



$\text{C}_{13}\text{H}_{11}\text{Cl}_2\text{NOD}_6$

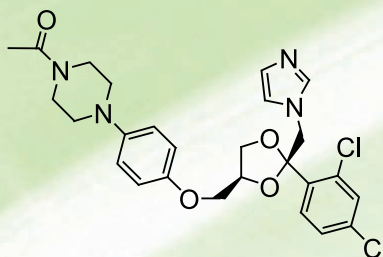
(1) for non labelled molecule

Substrates / APIs

Ketoconazole

AP8123

- > CAS number 65277-42-1
- > Molecular weight 531.44
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

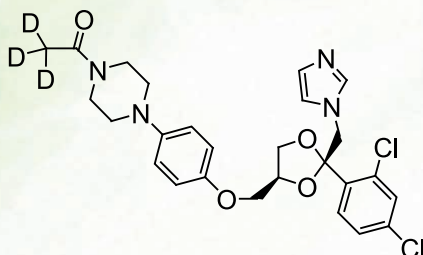


$\text{C}_{26}\text{H}_{28}\text{Cl}_2\text{N}_4\text{O}_4$

Ketoconazole-D₃

MI7978

- > CAS number 65277-42-1 (1)
- > Molecular weight 534.46
- > Size 5 mg; 10 mg; 25 mg
- > % purity $> 95\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

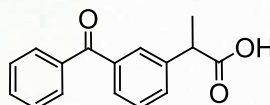


$\text{C}_{26}\text{H}_{25}\text{Cl}_2\text{N}_4\text{O}_4\text{D}_3$

Ketoprofen

AP8124

- > CAS number 22071-15-4
- > Molecular weight 254.29
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

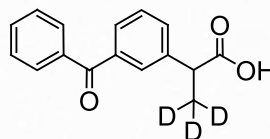


$\text{C}_{16}\text{H}_{14}\text{O}_3$

Ketoprofen-D₃

MI8003

- > CAS number 22071-15-4 (1)
- > Molecular weight 257.31
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

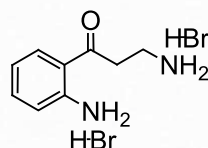


$\text{C}_{16}\text{H}_{11}\text{O}_3\text{D}_3$

Kynuramine, 2HBr

MM8211

- > CAS number 304-47-2
- > Molecular weight 388.57
- > Size 10 mg; 25 mg; 50 mg
- > % purity $> 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice



$\text{C}_9\text{H}_{14}\text{Br}_2\text{N}_2\text{O}$

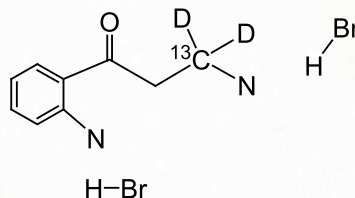
(1) for non labelled molecule

Substrates / APIs

Kynuramine-¹³C, D₂, 2HBr

MI8212

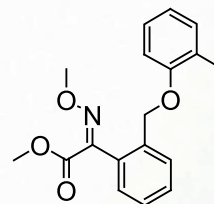
- | | |
|--------------------|--------------------|
| > CAS number | 363-36-0 (1) |
| > Molecular weight | 329.03 |
| > Size | 1 mg; 2.5 mg; 5 mg |
| > % purity | > 95 % |
| > Storage temp. | +4°C |
| > Shipping | wet ice |


$$\text{C}_9\text{H}_{12}\text{Br}_2\text{N}_2\text{OD}_2$$

**Kresoxim-Methyl (Z)-Isomer; [methyl (E)-methoxyimino-
[a-(o-tolyloxy)-o-tolyl]acetate (Z)-isomer]**

MR8229

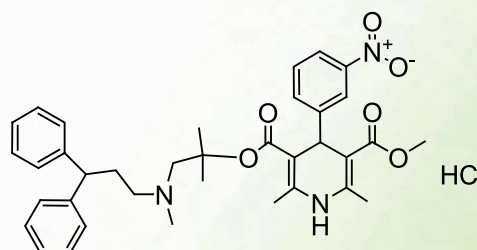
- > **CAS number** 248582-68-5
- > **Molecular weight** 313.36
- > **Size** 2.5 mg; 5 mg; 10 mg
- > **% purity** > 95 %
- > **Storage temp.** +4°C
- > **Shipping** wet ice


$$\text{C}_{18}\text{H}_{19}\text{NO}_4$$

(R,S)-Lercanidipine Hydrochloride

AP8125

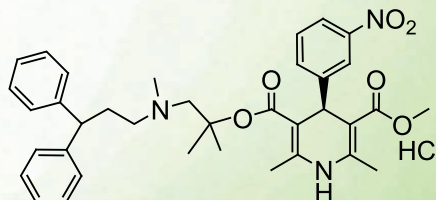
- | | |
|--------------------|----------------------|
| > CAS number | 132866-11-6 |
| > Molecular weight | 648.21 |
| > Size | 25 mg; 50 mg; 100 mg |
| > % purity | ≥ 98 % |
| > Storage temp. | +4°C |
| > Shipping | wet ice |


$$\text{C}_{36}\text{H}_{42}\text{ClN}_3\text{O}_6$$

(S)-Lercanidipine Hydrochloride

MR8038

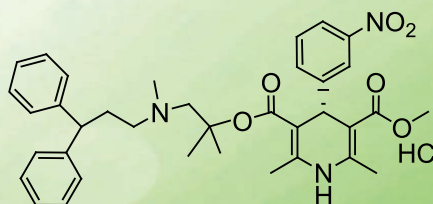
- | | |
|--------------------|--------------------|
| > CAS number | 184866-29-3 |
| > Molecular weight | 648.21 |
| > Size | 1 mg; 2.5 mg; 5 mg |
| > % purity | ≥ 98 % |
| > Storage temp. | +4°C |
| > Shipping | wet ice |


$$\text{C}_{36}\text{H}_{42}\text{ClN}_3\text{O}_6$$

(R)-Lercanidipine Hydrochloride

MR8039

- | | |
|--------------------|--------------------|
| > CAS number | 187731-34-6 |
| > Molecular weight | 648.21 |
| > Size | 5 mg; 10 mg; 25 mg |
| > % purity | ≥ 98 % |
| > Storage temp. | +4°C |
| > Shipping | wet ice |

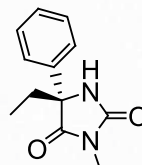

$$\text{C}_{36}\text{H}_{42}\text{ClN}_3\text{O}_6$$

(1) for non labelled molecule

S-Mephénytoin

M02028

- > CAS number 70989-04-7
- > Molecular weight 218.25
- > Size 5 mg; 25 g; 50 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

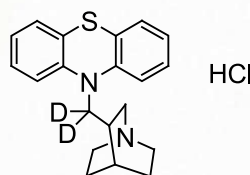


$\text{C}_{12}\text{H}_{14}\text{N}_2\text{O}_2$

Mequitazine-D₂ Hydrochloride

MI8182

- > CAS number 29216-28-2 for non labelled
- > Molecular weight 360.95
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity $> 95\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

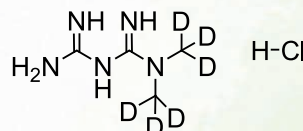


$\text{C}_{20}\text{H}_{21}\text{ClN}_2\text{SD}_2$

Metformine-D₆

MI8210

- > CAS number 1185166-01-1
- > Molecular weight 171.66
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity $> 95\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

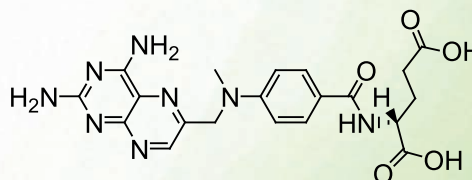


$\text{C}_4\text{H}_6\text{ClN}_5\text{D}_6$

Methotrexate

AP8131

- > CAS number 59-05-2
- > Molecular weight 454.45
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

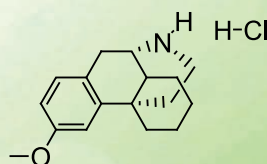


$\text{C}_{20}\text{H}_{22}\text{N}_8\text{O}_5$

3-Methoxymorphinan Hydrochloride

MM8206

- > CAS number 1087-69-0
- > Molecular weight 293.84
- > Size 5 mg; 10 mg; 25 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice



$\text{C}_{17}\text{H}_{24}\text{ClNO}$

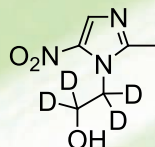
(1) for non labelled molecule

Substrates / APIs

Metronidazole-D₄

MI7922

- > CAS number 443-48-1 (1)
- > Molecular weight 175.18
- > Size 5mg; 10 mg; 25 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

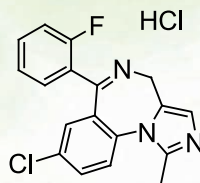


C₆H₅N₃O₃D₄

Midazolam

M02022

- > CAS number 59467-70-8
- > Molecular weight 325.77
- > Size 5 mg; 25 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice

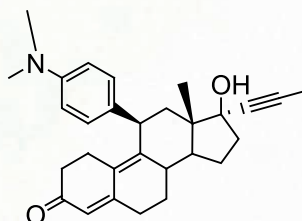


C₁₈H₁₃ClFN₃

Mifepristone (RU42848)

AP8132

- > CAS number 84371-65-3
- > Molecular weight 429.61
- > Size 50 mg; 100 mg; 250 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice

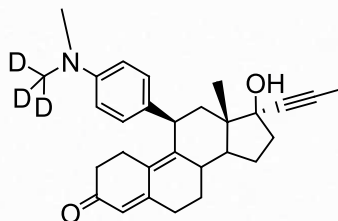


C₂₉H₃₅NO₂

Mifepristone-D₃

MI7920

- > CAS number 84371-65-3 (1)
- > Molecular weight 432.63
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

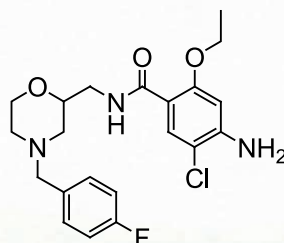


C₂₉H₃₂NO₂D₃

Mosapride

AP8133

- > CAS number 112885-41-3
- > Molecular weight 421.90
- > Size 10 mg; 25 mg; 50 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice



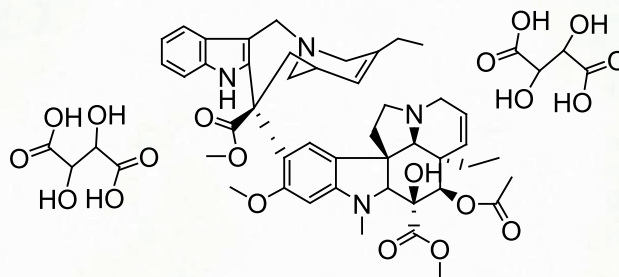
C₂₁H₂₅ClFN₃O₃

(1) for non labelled molecule

Navelbine Ditartrate

AP8134

- > CAS number 125317-39-7
- > Molecular weight 1079.11
- > Size 10 mg; 25 mg; 50 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

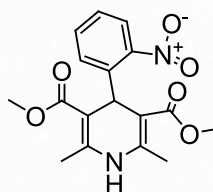


$\text{C}_{53}\text{H}_{66}\text{N}_4\text{O}_{20}$

Nifedipine

AP8135

- > CAS number 21829-25-4
- > Molecular weight 346.34
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

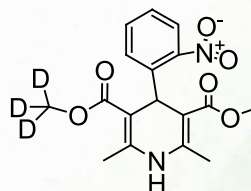


$\text{C}_{17}\text{H}_{18}\text{N}_2\text{O}_6$

Nifedipine-D₃

MI7976

- > CAS number 21829-25-4 (1)
- > Molecular weight 349.36
- > Size 5 mg; 10 mg; 25 mg
- > % purity $> 95\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

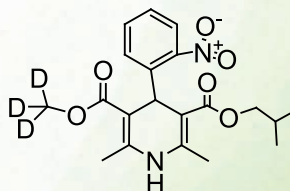


$\text{C}_{17}\text{H}_{15}\text{N}_2\text{O}_6\text{D}_3$

Nisoldipine-D₃

MI7977

- > CAS number 63675-72-9 (1)
- > Molecular weight 391.44
- > Size 10 mg; 25 mg; 50 mg
- > % purity $> 95\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

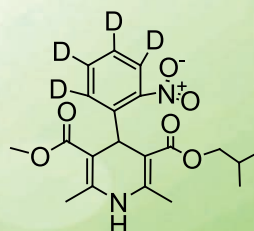


$\text{C}_{20}\text{H}_{21}\text{N}_2\text{O}_6\text{D}_3$

Nisoldipine-D₄

MI8188

- > CAS number 1219795-47-7
- > Molecular weight 392.45
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity $> 95\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice



$\text{C}_{20}\text{H}_{20}\text{N}_2\text{O}_6\text{D}_4$

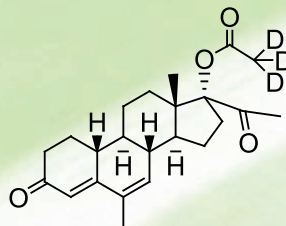
(1) for non labelled molecule

Substrates / APIs

Nomegestrol Acetate-D₃

MI8201

- > CAS number 58652-20-3 (1)
- > Molecular weight 373.51
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

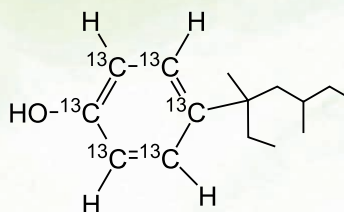


C₂₃H₂₇O₄D₃

p-N-Nonylphenol (RING-¹³C₆)

MI8228

- > CAS number 186825-36-5 (1)
- > Molecular weight 226.29
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

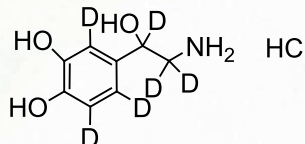


C₁₅H₂₄O

Noradrenaline-D₆ Hydrochloride

MI8232

- > CAS number 55-27-6 for non deuterated
- > Molecular weight 211.68
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity > 99 %
- > Storage temp. +4°C
- > Shipping wet ice

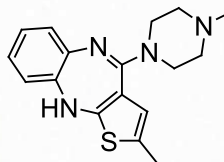


C₈H₆D₆ClNO₃

Olanzapine

AP8136

- > CAS number 132539-06-1
- > Molecular weight 312.44
- > Size 10 mg; 25 mg; 50 mg
- > % purity ≥ 99 %
- > Storage temp. +4°C
- > Shipping wet ice

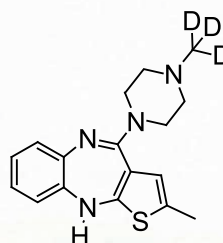


C₁₇H₂₀N₄S

Olanzapine-D₃

MI7926

- > CAS number 786686-79-1
- > Molecular weight 315.46
- > Size 5 mg; 10 mg; 25 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice



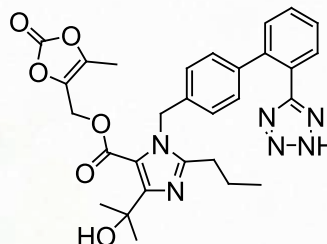
C₁₇H₁₇N₄SD₃

(1) for non labelled molecule

Olmesartan Medoxomil

AP8137

- > CAS number 144689-63-4
- > Molecular weight 558.60
- > Size 10 mg; 25 mg; 50 mg
- > % purity $\geq 98 \%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

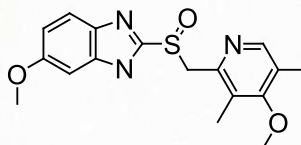


$\text{C}_{29}\text{H}_{30}\text{N}_6\text{O}_6$

Omeprazole

AP8138

- > CAS number 73590-58-6
- > Molecular weight 345.42
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 98 \%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

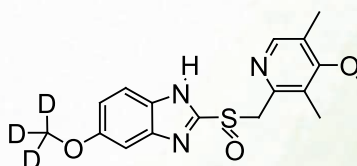


$\text{C}_{17}\text{H}_{19}\text{N}_3\text{O}_3\text{S}$

Omeprazole-D₃

MI8015

- > CAS number 73590-58-6 (1)
- > Molecular weight 348.44
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity $> 95 \%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

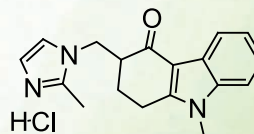


$\text{C}_{17}\text{H}_{16}\text{N}_3\text{O}_3\text{SD}_3$

Ondansetron Hydrochloride

AP8139

- > CAS number 103639-04-9
- > Molecular weight 329.83
- > Size 10 mg; 25 mg; 50 mg
- > % purity $\geq 98 \%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

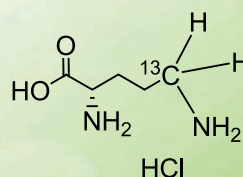


$\text{C}_{18}\text{H}_{20}\text{ClN}_3\text{O}$

L-Ornithine-¹³C Hydrochloride

MI7963

- > CAS number 3184-13-2 (1)
- > Molecular weight 169.61
- > Size 10 mg; 25 mg; 50 mg
- > % purity $> 95 \%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice



$^{13}\text{C}_4\text{H}_{13}\text{ClN}_2\text{O}_2$

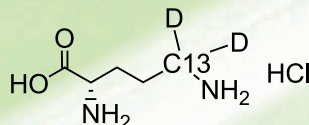
(1) for non labelled molecule

Substrates / APIs

L-Ornithine-¹³C-D₂ Hydrochloride

MI7964

- > CAS number 3184-13-2 (1)
- > Molecular weight 171.63
- > Size 10 mg; 25 mg; 50 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

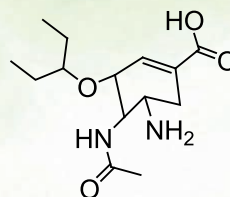


¹³CC₄H₁₁ClN₂O₂D₂

Oseltamivir Acid Hydrochloride

MM8202

- > CAS number 182367-71-1 (base)
- > Molecular weight 284.36
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity > 98 %
- > Storage temp. +4°C
- > Shipping wet ice

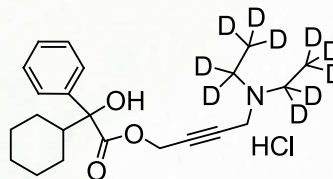


C₁₄H₂₄N₂O₄

Oxybutynin-D₁₀ Hydrochloride

MI7936

- > CAS number 120092-65-1
- > Molecular weight 404.02
- > Size 10 mg; 25 mg; 50 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

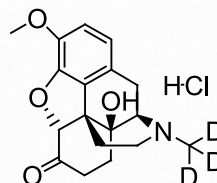


C₂₂H₂₂ClNO₃D₁₀

Oxycodone-D₃ Hydrochloride

MI8023

- > CAS number 124-90-3 (1)
- > Molecular weight 354.85
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice

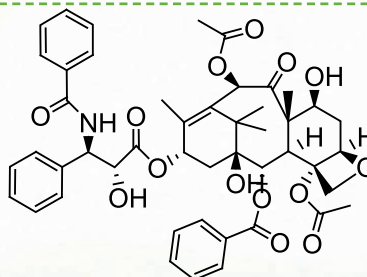


C₁₈H₁₉ClNO₄D₃

Paclitaxel

AP8183

- > CAS number 33069-62-4
- > Molecular weight 853.93
- > Size 25 mg; 50 mg; 100 mg
- > % purity > 95 %
- > Storage temp. -20°C
- > Shipping dry ice



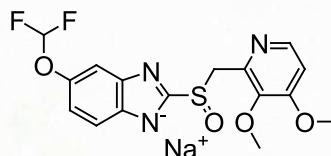
C₄₇H₅₁NO₁₄

(1) for non labelled molecule

Pantoprazole Sodium Salt

AP8140

- > CAS number 138786-67-1
- > Molecular weight 405.36
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

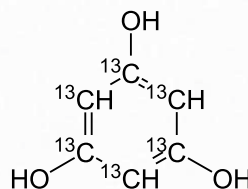


$\text{C}_{16}\text{H}_{14}\text{F}_2\text{N}_3\text{NaO}_4\text{S}$

Phloroglucinol- $^{13}\text{C}_6$

MI8180

- > CAS number 108-73-6 (1)
- > Molecular weight 132.05
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity $> 95\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

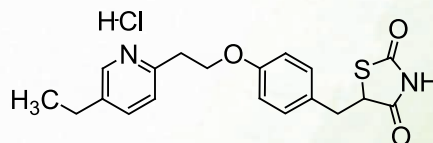


$\text{C}_6\text{H}_6\text{O}_3$

Pioglitazone Hydrochloride

AP8141

- > CAS number 112529-15-4
- > Molecular weight 392.91
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

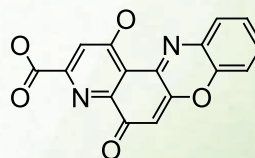


$\text{C}_{19}\text{H}_{21}\text{ClN}_2\text{O}_3\text{S}$

Pirenoxine

AP8142

- > CAS number 1043-21-6
- > Molecular weight 308.25
- > Size 10 mg; 25 mg; 50 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

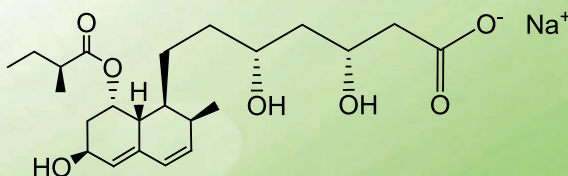


$\text{C}_{16}\text{H}_8\text{N}_2\text{O}_5$

Pravastatin Sodium Salt

AP8143

- > CAS number 81131-70-6
- > Molecular weight 442.58
- > Size 10 mg; 25 mg; 50 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice



$\text{C}_{25}\text{H}_{39}\text{NaO}_5$

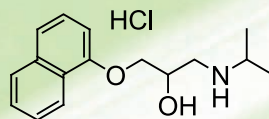
(1) for non labelled molecule

Substrates / APIs

Propranolol Hydrochloride

MI02029

- > CAS number 3506-09-0
- > Molecular weight 295.80
- > Size 50 mg; 100 mg; 250 mg
- > % purity > 97 %
- > Storage temp. +4°C
- > Shipping wet ice

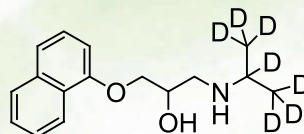


$C_{16}H_{22}ClNO_2$

Propranolol-D₇

MI8072

- > CAS number 525-66-6 (1)
- > Molecular weight 266.39
- > Size 5 mg; 10 mg; 25 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice

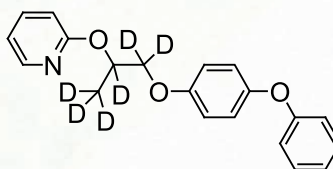


$C_{16}H_{14}NO_2D_7$

Pyriproxyfen-D₆

MI8231

- > CAS number 95737-68-1 for non labelled
- > Molecular weight 302.41
- > Size 5 mg; 25 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

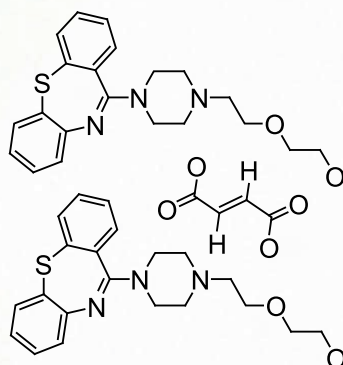


$C_{20}H_{13}NO_3D_6$

Quetiapine Fumarate

AP8144

- > CAS number 111974-72-2
- > Molecular weight 883.11
- > Size 50 mg; 100 mg; 250 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice

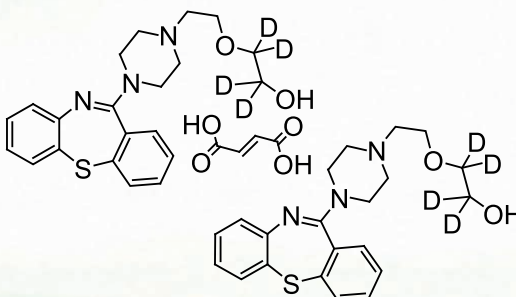


$C_{46}H_{54}N_6O_8S_2$

Quetiapine-D₄ Hemifumarate

MI7941

- > CAS number 111974-72-2 (1)
- > Molecular weight 891.15
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice



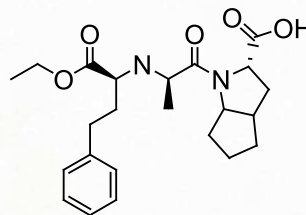
$C_{46}H_{46}N_6O_8S_2D_8$

(1) for non labelled molecule

Ramipril

AP8145

- > CAS number 87333-19-5
- > Molecular weight 416.52
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 99\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

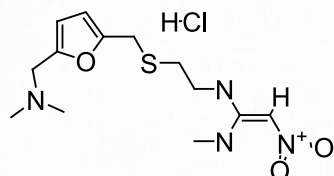


$\text{C}_{23}\text{H}_{32}\text{N}_2\text{O}_5$

Ranitidine Hydrochloride

AP8146

- > CAS number 66357-59-3
- > Molecular weight 350.87
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

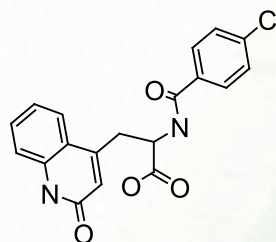


$\text{C}_{13}\text{H}_{23}\text{ClN}_4\text{O}_3\text{S}$

Rebamipide

AP8147

- > CAS number 90098-04-7
- > Molecular weight 370.80
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 99\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

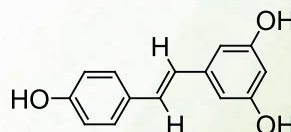


$\text{C}_{19}\text{H}_{15}\text{ClN}_2\text{O}_4$

Resveratrol

AP8029

- > CAS number 501-36-0
- > Molecular weight 228.25
- > Size 250 mg; 1 g
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

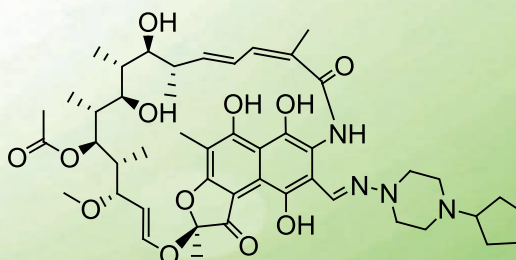


$\text{C}_{14}\text{H}_{12}\text{O}_3$

Rifapentine

AP8149

- > CAS number 61379-65-5
- > Molecular weight 877.05
- > Size 10 mg; 25 mg; 50 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice



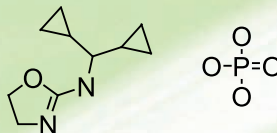
$\text{C}_{47}\text{H}_{64}\text{N}_4\text{O}_{12}$

Substrates / APIs

Rilmenidine Phosphate

AP8150

- > CAS number 85409-38-7
- > Molecular weight 278.25
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

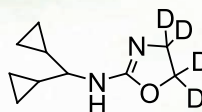


$\text{C}_{10}\text{H}_{19}\text{N}_2\text{O}_5\text{P}$

Rilmenidine-D₄

MI7967

- > CAS number 85047-14-9
- > Molecular weight 184.28
- > Size 10 mg; 25 mg; 50 mg
- > % purity $> 95\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice



$\text{C}_{10}\text{H}_{12}\text{N}_2\text{OD}_4$

Risedronate Sodium Salt

AP8148

- > CAS number 115436-72-1
- > Molecular weight 305.10
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 99\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

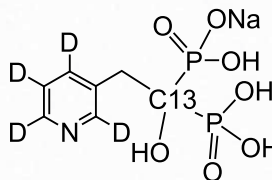


$\text{C}_7\text{H}_{10}\text{NNaO}_7\text{P}_2$

Risedronate-D₄ ¹³C (M+5) Sodium Salt

MI8061

- > CAS number 115436-72-1
- > Molecular weight 286.16
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

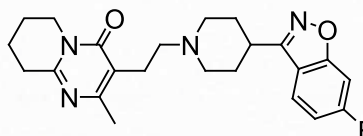


$\text{C}_8\text{H}_9\text{NO}_6\text{P}_2\text{D}_4$

Risperidone

AP8151

- > CAS number 106266-06-2
- > Molecular weight 410.50
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

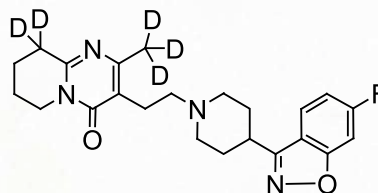


$\text{C}_{23}\text{H}_{27}\text{FN}_4\text{O}_2$

Risperidone-D₅

MI7942

- > CAS number 106266-06-2 (1)
- > Molecular weight 415.53
- > Size 5 mg; 10 mg; 25 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

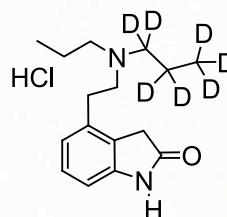


C₂₃H₂₂FN₄O₂D₅

Ropinirole-D₇ Hydrochloride

MI7945

- > CAS number 91374-20-8 (1)
- > Molecular weight 303.89
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

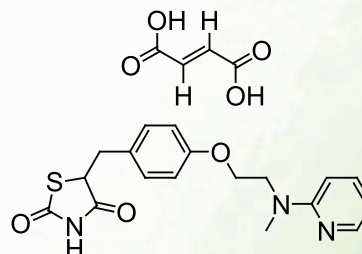


C₁₆H₁₈ClN₂OD₇

Rosiglitazone Maleate

AP8152

- > CAS number 155141-29-0
- > Molecular weight 473.51
- > Size 50 mg; 100 mg; 250 mg
- > % purity ≥ 99 %
- > Storage temp. +4°C
- > Shipping wet ice

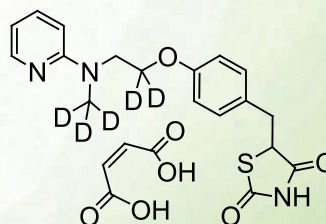


C₂₂H₂₃N₃O₇S

Rosiglitazone-D₅ Maleate

MI7947

- > CAS number 155141-29-0 (1)
- > Molecular weight 478.54
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

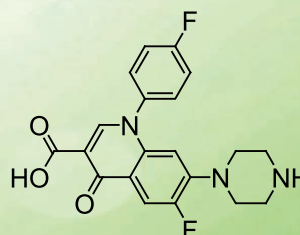


C₂₂H₁₈N₃O₇SD₅

Sarafloxacin

AP8153

- > CAS number 98105-99-8
- > Molecular weight 385.37
- > Size 50 mg; 100 mg; 250 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice



C₂₀H₁₇F₂N₃O₃

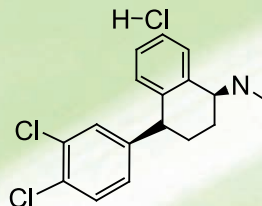
(1) for non labelled molecule

Substrates / APIs

Sertraline Hydrochloride

AP8154

- > CAS number 79559-97-0
- > Molecular weight 342.70
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 99\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

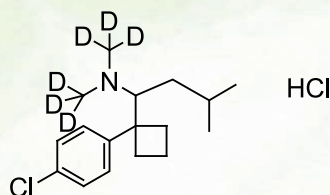


$\text{C}_{17}\text{H}_{18}\text{Cl}_3\text{N}$

Sibutramine-D₆ Hydrochloride

MI8224

- > CAS number 1216544-25-0 (base)
- > Molecular weight 322.35
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity $> 95\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

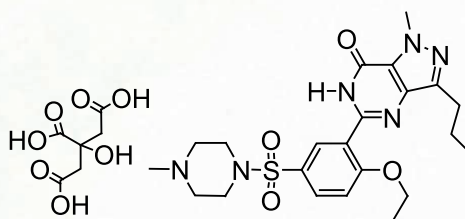


$\text{C}_{17}\text{H}_{21}\text{Cl}_2\text{ND}_6$

Sildenafil Citrate

AP8155

- > CAS number 171599-83-0
- > Molecular weight 666.71
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 99\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

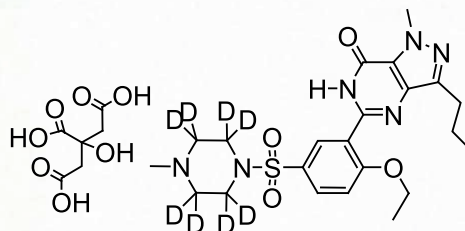


$\text{C}_{28}\text{H}_{38}\text{N}_6\text{O}_{11}\text{S}$

Sildenafil-D₈ Citrate

MI7948

- > CAS number 171599-83-0 (1)
- > Molecular weight 674.76
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity $> 95\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

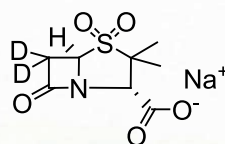


$\text{C}_{28}\text{H}_{30}\text{N}_6\text{O}_{11}\text{SD}_8$

Sulbactam-D₂ Sodium Salt

MI8216

- > CAS number 948027-82-5
- > Molecular weight 257.24
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity $> 95\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice



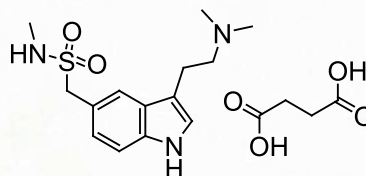
$\text{C}_8\text{H}_8\text{NNaO}_5\text{SD}_2$

(1) for non labelled molecule

Sumatriptan Succinate

AP8157

- > CAS number 103628-48-4
- > Molecular weight 413.50
- > Size 10 mg; 25 mg; 50 mg
- > % purity $\geq 99\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

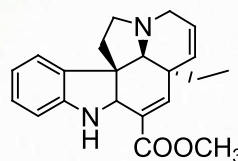


$\text{C}_{18}\text{H}_{27}\text{N}_3\text{O}_6\text{S}$

Tabersonine

AP8158

- > CAS number 4429-63-4
- > Molecular weight 336.44
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

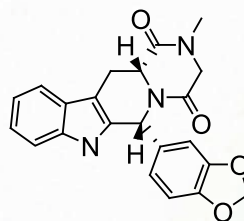


$\text{C}_{21}\text{H}_{24}\text{N}_2\text{O}_2$

Tadalafil

AP8159

- > CAS number 171596-29-5
- > Molecular weight 389.41
- > Size 10 mg; 25 mg; 50 mg
- > % purity $\geq 99\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

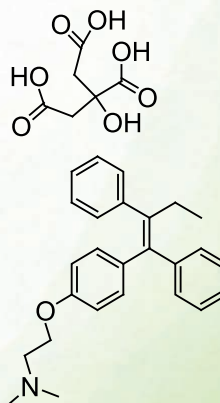


$\text{C}_{22}\text{H}_{19}\text{N}_3\text{O}_4$

Tamoxifen Citrate

AP8160

- > CAS number 54965-24-1
- > Molecular weight 563.65
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

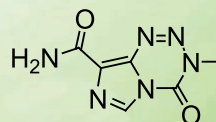


$\text{C}_{32}\text{H}_{37}\text{NO}_8$

Temozolomide

AP8161

- > CAS number 85622-93-1
- > Molecular weight 194.15
- > Size 10 mg; 25 mg; 50 mg
- > % purity $\geq 99\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice



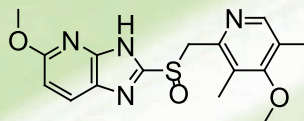
$\text{C}_6\text{H}_6\text{N}_6\text{O}_2$

Substrates / APIs

Tenatoprazole

AP8162

- > CAS number 113712-98-4
- > Molecular weight 346.41
- > Size 10 mg; 25 mg; 50 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

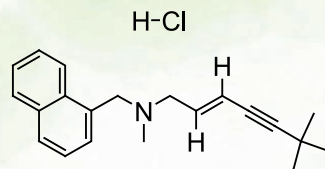


$\text{C}_{16}\text{H}_{18}\text{N}_4\text{O}_3\text{S}$

Terbinafine Hydrochloride

AP8163

- > CAS number 78628-80-5
- > Molecular weight 327.90
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

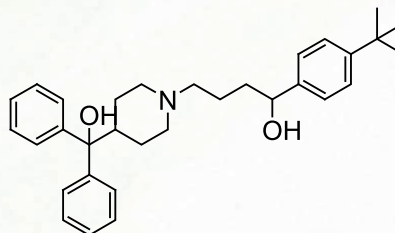


$\text{C}_{21}\text{H}_{26}\text{ClN}$

Terfenadine

M02023

- > CAS number 50679-08-8
- > Molecular weight 471.67
- > Size 100 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

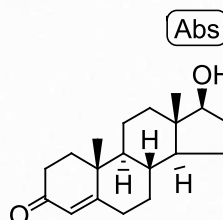


$\text{C}_{32}\text{H}_{41}\text{NO}_2$

Testosterone

M02021

- > CAS number 58-22-0
- > Molecular weight 288.42
- > Size 100 mg; 500 mg; 1 g
- > % purity $\geq 98\%$
- > Storage temp. RT
- > Shipping RT

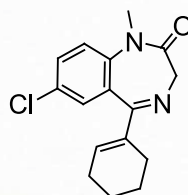


$\text{C}_{19}\text{H}_{28}\text{O}_2$

Tetrazepam

AP8164

- > CAS number 10379-14-3
- > Molecular weight 288.78
- > Size 10 mg; 25 mg; 50 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

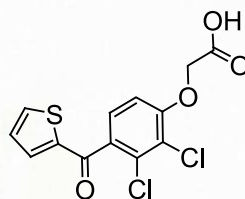


$\text{C}_{16}\text{H}_{17}\text{ClN}_2\text{O}$

Tienilic Acid

M02001

- > CAS number 40180-04-9
- > Molecular weight 331.17
- > Size 5 mg
- > % purity > 99 %
- > Storage temp. +4°C
- > Shipping wet ice

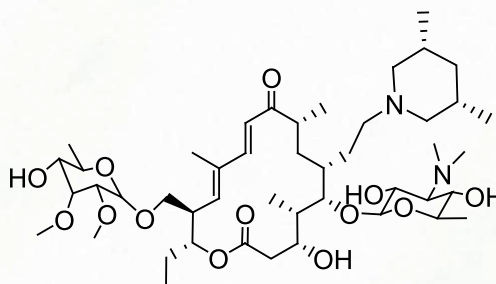


$C_{13}H_8Cl_2O_4S$

Tilmicosin

AP8165

- > CAS number 108050-54-0
- > Molecular weight 869.16
- > Size 10 mg; 25 mg; 50 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice

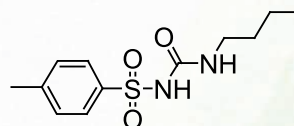


$C_{46}H_{80}N_2O_{13}$

Tolbutamide

M02020

- > CAS number 64-77-7
- > Molecular weight 270.35
- > Size 100 mg
- > % purity ≥ 98 %
- > Storage temp. RT
- > Shipping RT

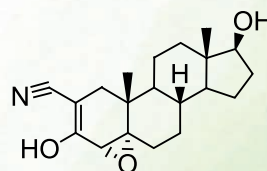


$C_{12}H_{18}N_2O_3S$

Trilostane

AP8166

- > CAS number 13647-35-3
- > Molecular weight 329.44
- > Size 10 mg; 25 mg; 50 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice

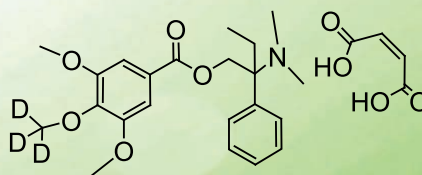


$C_{20}H_{27}NO_3$

Trimebutine-D₃ Maleate

MI7957

- > CAS number 34140-59-5 (1)
- > Molecular weight 506.57
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice



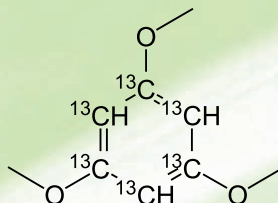
$C_{26}H_{30}NO_9D_3$

Substrates / APIs

1,3,5-Trimethoxybenzene-¹³C₆

MI8181

- > CAS number 621-23-8 for non labelled
- > Molecular weight 174.13
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity > 95%
- > Storage temp. +4°C
- > Shipping wet ice

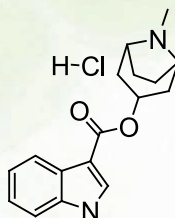


C₉H₁₂O₃

Tropisetron Hydrochloride

AP8167

- > CAS number 105826-92-4
- > Molecular weight 320.82
- > Size 25 mg; 50 mg; 100 mg
- > % purity ≥ 99 %
- > Storage temp. +4°C
- > Shipping wet ice

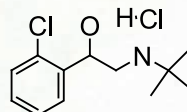


C₁₇H₂₁ClN₂O₂

Tulobuterol Hydrochloride

AP8168

- > CAS number 56776-01-3
- > Molecular weight 264.20
- > Size 50 mg; 100 mg; 250 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice

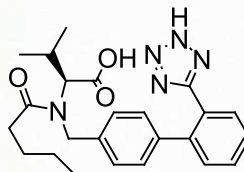


C₁₂H₁₉Cl₂NO

Valsartan

AP8169

- > CAS number 137862-53-4
- > Molecular weight 435.53
- > Size 50 mg; 100 mg; 250 mg
- > % purity ≥ 99 %
- > Storage temp. +4°C
- > Shipping wet ice

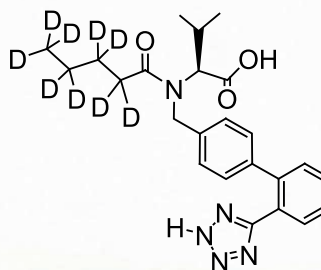


C₂₄H₂₉N₅O₃

Valsartan-D₉

MI7954

- > CAS number 137862-53-4 (1)
- > Molecular weight 444.58
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice



C₂₄H₂₀N₅O₃D₉

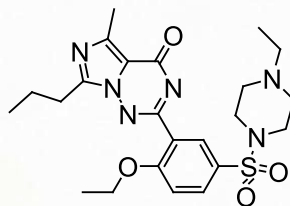
(1) for non labelled molecule

Substrates / APIs

Vardenafil

AP8171

- > CAS number 224785-90-4
- > Molecular weight 488.61
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

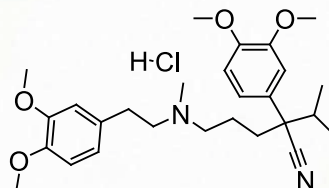


$\text{C}_{23}\text{H}_{32}\text{N}_6\text{O}_4\text{S}$

Verapamil Hydrochloride

AP8170

- > CAS number 152-11-4
- > Molecular weight 491.08
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

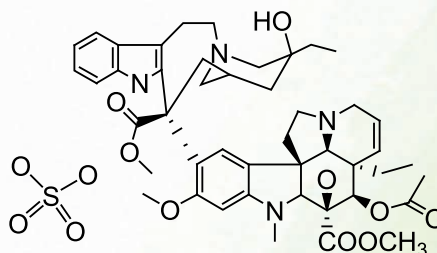


$\text{C}_{27}\text{H}_{39}\text{ClN}_2\text{O}_4$

Vinblastine Sulfate

AP8172

- > CAS number 143-67-9
- > Molecular weight 909.05
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

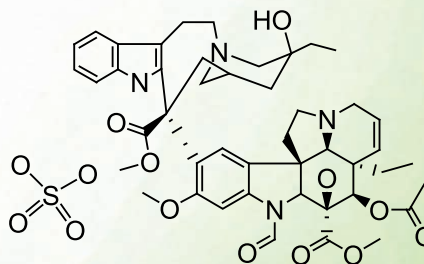


$\text{C}_{46}\text{H}_{60}\text{N}_4\text{O}_{13}\text{S}$

Vincristine Sulfate

AP8173

- > CAS number 2068-78-2
- > Molecular weight 923.04
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

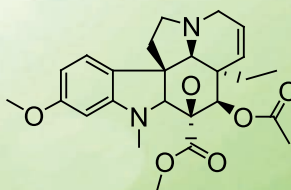


$\text{C}_{46}\text{H}_{58}\text{N}_4\text{O}_{14}\text{S}$

Vindoline

AP8174

- > CAS number 2182-14-1
- > Molecular weight 456.53
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice



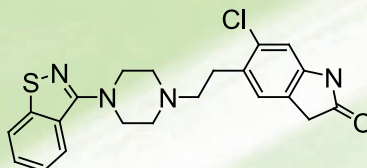
$\text{C}_{25}\text{H}_{32}\text{N}_2\text{O}_6$

Substrates / APIs

Ziprasidone

AP8175

- > CAS number 146937-27-7
- > Molecular weight 412.94
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

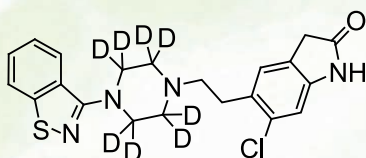


$\text{C}_{21}\text{H}_{21}\text{ClN}_4\text{OS}$

Ziprasidone-D₈

MI7955

- > CAS number 146939-27-7 (1)
- > Molecular weight 420.99
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity $> 95\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

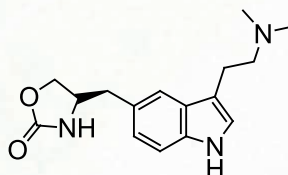


$\text{C}_{21}\text{H}_{13}\text{ClN}_4\text{OSD}_8$

Zolmitriptan

AP8176

- > CAS number 139264-17-8
- > Molecular weight 287.36
- > Size 10 mg; 50 mg; 100 mg
- > % purity $\geq 99\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

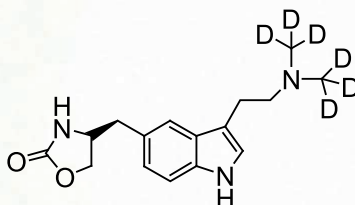


$\text{C}_{16}\text{H}_{21}\text{N}_3\text{O}_2$

Zolmitriptan-D₆

MI8057

- > CAS number 139264-17-8
- > Molecular weight 293.40
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

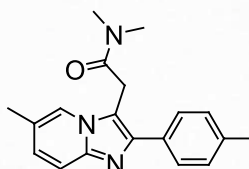


$\text{C}_{16}\text{H}_{15}\text{N}_3\text{O}_2\text{D}_6$

Zolpidem

AP8177

- > CAS number 82626-48-0
- > Molecular weight 307.40
- > Size 25 mg; 50 mg; 100 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice



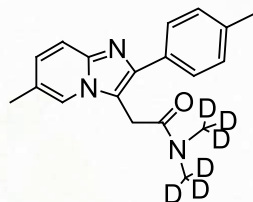
$\text{C}_{19}\text{H}_{21}\text{N}_3\text{O}$

(1) for non labelled molecule

Zolpidem-D₆

MI7968

- > CAS number 82626-48-0 (1)
- > Molecular weight 313.43
- > Size 10 mg; 25 mg; 50 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

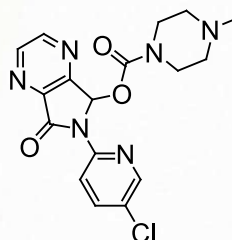


C₁₉H₁₅N₃OD₆

Zopiclone

AP8178

- > CAS number 138729-47-2
- > Molecular weight 388.82
- > Size 10 mg; 25 mg; 50 mg
- > % purity ≥ 99 %
- > Storage temp. +4°C
- > Shipping wet ice



C₁₇H₁₇ClN₆O₃

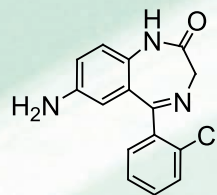
(1) for non labelled molecule

Metabolites

7-Aminoclonazepam

MM7905

- > CAS number 4959-17-5
- > Molecular weight 285.74
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

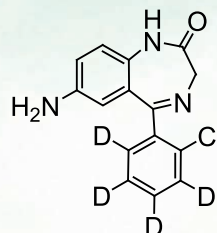


C₁₅H₁₂ClN₃O

7-Aminoclonazepam-D₄

MI7906

- > CAS number 4959-17-5 (1)
- > Molecular weight 289.76
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

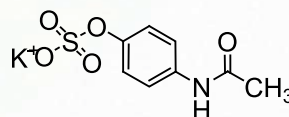


C₁₅H₈ClN₃OD₄

Acetaminophen Sulphate Potassium Salt

MM7989

- > CAS number 32113-41-0
- > Molecular weight 269.32
- > Size 10 mg; 25 mg; 50 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

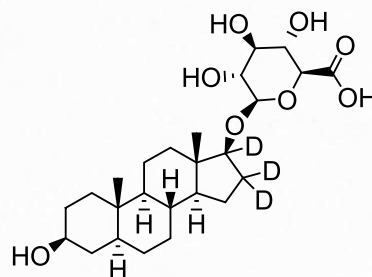


C₈H₈KNO₅S

Androstane-3β,17-β-Diol 3-O-β-D Glucuronide-D₃

MI8240

- > CAS number 65144-53-8 (1)
- > Molecular weight 471.61
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity > 99 %
- > Storage temp. +4°C
- > Shipping wet ice

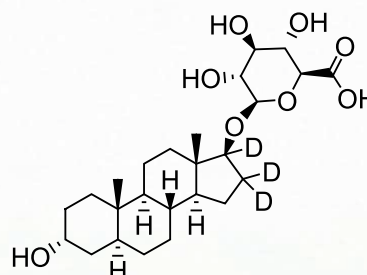


C₂₅H₃₇O₈D₃

Androstane-3α,17-β-Diol 3-O-β-D Glucuronide-D₃

MI8239

- > CAS number 148616-25-5 (1)
- > Molecular weight 471.61
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity > 99 %
- > Storage temp. +4°C
- > Shipping wet ice



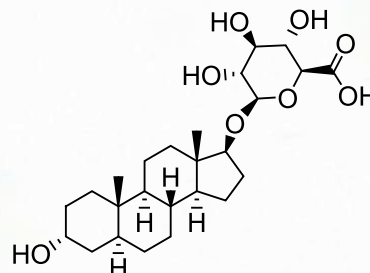
C₂₅H₃₇O₈D₃

(1) for non labelled molecule

Androstane-3 α ,17- β -Diol 17-O- β -D Glucuronide

MM8235

- > CAS number 148616-25-5
- > Molecular weight 468.59
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity > 98 %
- > Storage temp. +4°C
- > Shipping wet ice

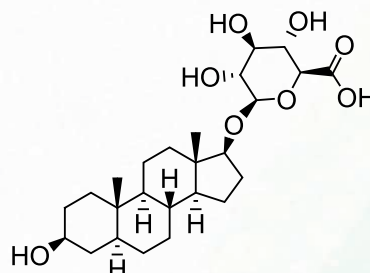


C₂₅H₄₀O₈

Androstane-3 β ,17- β -Diol 17-O- β -D Glucuronide

MM8236

- > CAS number 65144-53-8
- > Molecular weight 468.59
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

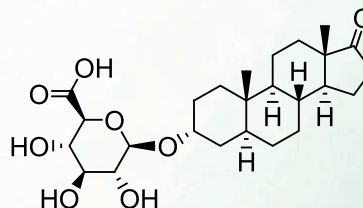


C₂₅H₄₀O₈

Androsterone Glucuronide

MM8234

- > CAS number 1852-43-3
- > Molecular weight 466.58
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

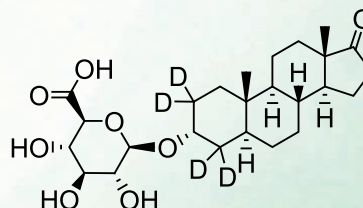


C₂₅H₃₈O₈

Androsterone Glucuronide-D₄

MI8238

- > CAS number 1852-43-3 (1)
- > Molecular weight 470.60
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity > 99 %
- > Storage temp. +4°C
- > Shipping wet ice

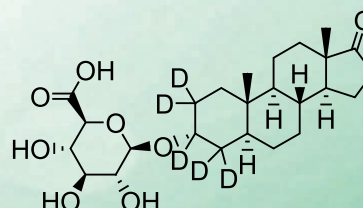


C₂₅H₃₄O₈D₄

Androsterone Glucuronide-D₅

MI8242

- > CAS number 1852-43-3 (1)
- > Molecular weight 471.61
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity > 99 %
- > Storage temp. +4°C
- > Shipping wet ice



C₂₅H₃₃O₈D₅

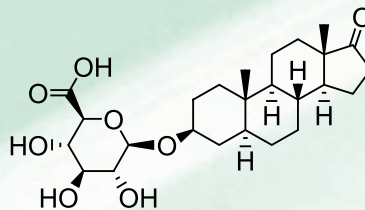
(1) for non labelled molecule

Metabolites

Epi Androsterone-β-Glucuronide

MM8249

- > CAS number 21085-78-9
- > Molecular weight 468.59
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity > 98 %
- > Storage temp. +4°C
- > Shipping wet ice

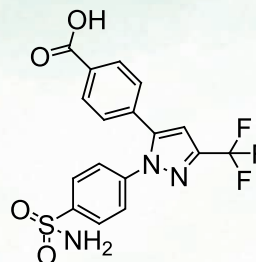


C₂₅H₃₈O₈

Celecoxib Carboxylic Acid

MM8191

- > CAS number 170571-01-4
- > Molecular weight 411.36
- > Size 5 mg; 10 mg; 25 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

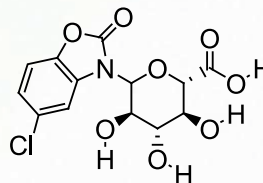


C₁₇H₁₄F₃N₃O₃S

Chlorzoxazone N-Glucuronide

M02048

- > CAS number NDA
- > Molecular weight 345.69
- > Size 5 mg; 10 mg; 25 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

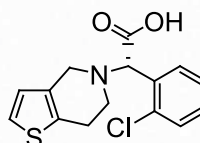


C₁₃H₁₂ClNO₈

Clopidogrel Carboxylic Acid

MM7908

- > CAS number 144457-28-3
- > Molecular weight 307.80
- > Size 10 mg; 25 mg; 50 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

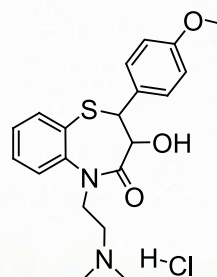


C₁₅H₁₄ClNO₂S

Deacetyldiltiazem

MM7969

- > CAS number 42399-40-6
- > Molecular weight 372.49
- > Size 10 mg; 25 mg; 50 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

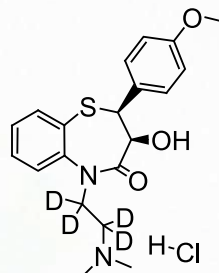


C₂₀H₂₄N₂O₃S

Deacetyldiltiazem-D₄

MI7973

- > CAS number 112259-40-2
- > Molecular weight 376.51
- > Size 10 mg; 25 mg; 50 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

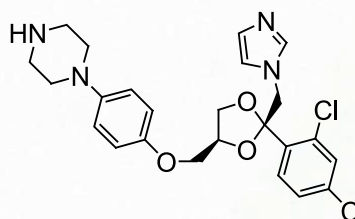


C₂₀H₂₀N₂O₃SD₄

Deacylketonazole

MM7979

- > CAS number 67914-61-8
- > Molecular weight 489.41
- > Size 10 mg; 25 mg; 50 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

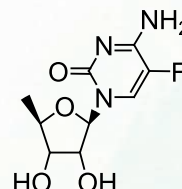


C₂₄H₂₆Cl₂N₄O₃

Deoxy-5-Fluorocytidine (5-DFCR)

MM7899

- > CAS number 66335-38-4
- > Molecular weight 245.21
- > Size 25 mg; 50 mg; 100 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

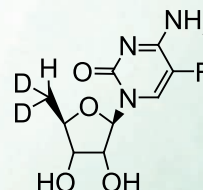


C₉H₁₂FN₃O₄

Deoxy-5-Fluorocytidine-D₂ (5-DFCR-D₂)

MI7900

- > CAS number 66335-38-4 (1)
- > Molecular weight 247.22
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

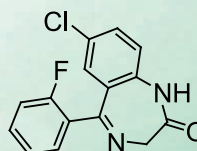


C₉H₁₀FN₃O₄D₂

Desalkylflurazepam

MM8097

- > CAS number 2886-65-9
- > Molecular weight 288.71
- > Size 5 mg; 10 mg; 25 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice



C₁₅H₁₀ClFN₂O

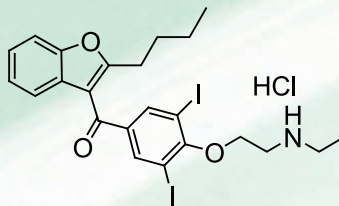
(1) for non labelled molecule

Metabolites

Mono-N-Desethylamidarone Hydrochloride (MDEA)

MM7892

- > CAS number 96027-74-6
- > Molecular weight 653.73
- > Size 50 mg; 100 mg; 250 mg
- > % purity $\geq 95\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

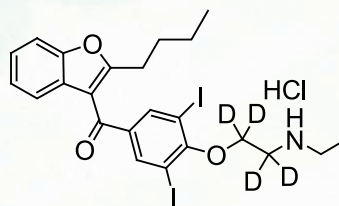


$\text{C}_{23}\text{H}_{26}\text{ClI}_2\text{NO}_3$

Mono-N-Desethylamidarone-D₄ Hydrochloride (MDEA-D₄)

MI7893

- > CAS number 96027-74-6 (1)
- > Molecular weight 657.75
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity $> 95\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

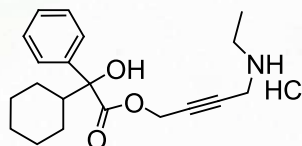


$\text{C}_{23}\text{H}_{22}\text{ClI}_2\text{NO}_3\text{D}_4$

N-Desethyloxybutynin Hydrochloride

MM7937

- > CAS number 81039-77-2
- > Molecular weight 365.90
- > Size 10 mg; 25 mg; 50 mg
- > % purity $> 95\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

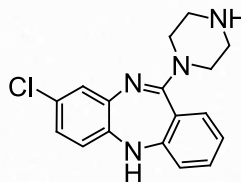


$\text{C}_{20}\text{H}_{28}\text{ClINO}_3$

Desmethyloclozapine

MM7910

- > CAS number 6104-71-8
- > Molecular weight 312.80
- > Size 10 mg; 25 mg; 50 mg
- > % purity $> 95\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

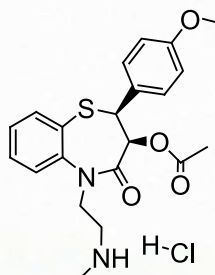


$\text{C}_{17}\text{H}_{17}\text{ClN}_4$

N-Desmethyldiltiazem

MM7970

- > CAS number 85100-17-0
- > Molecular weight 400.50
- > Size 25 mg; 50 mg; 100 mg
- > % purity $> 95\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice



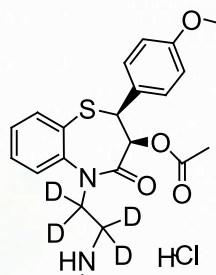
$\text{C}_{21}\text{H}_{24}\text{N}_2\text{O}_4\text{S}$

(1) for non labelled molecule

N-Desmethyldiltiazem-D₄

MI7972

- > CAS number 86408-45-9
- > Molecular weight 404.52
- > Size 10 mg; 25 mg; 50 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

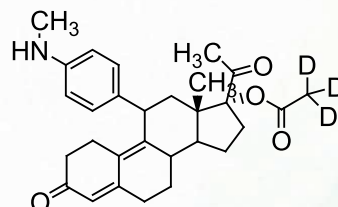


C₂₁H₂₀N₂O₄SD₄

Mono-Desmethyl HRP 2000 (VA-3877)-D₃

MI8056

- > CAS number 126784-99-4
- > Molecular weight 464.62
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice

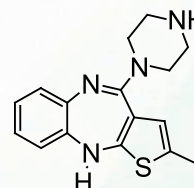


C₂₉H₃₂NO₄D₃

Desmethyloanzapine

MM7927

- > CAS number 786686-76-0
- > Molecular weight 298.41
- > Size 5 mg; 10 mg; 25 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

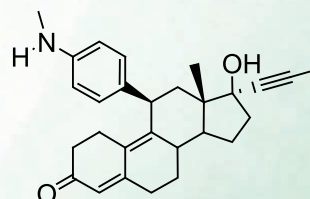


C₁₆H₁₈N₄S

N-Desmethylnifedipristone

MM7921

- > CAS number 104004-96-8
- > Molecular weight 415.58
- > Size 5 mg; 10 mg; 25 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

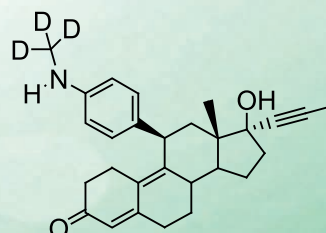


C₂₈H₃₃NO₂

N-Desmethylnifedipristone-D₃

MI8042

- > CAS number 104004-96-8 (1)
- > Molecular weight 418.60
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice



C₂₈H₃₀NO₂D₃

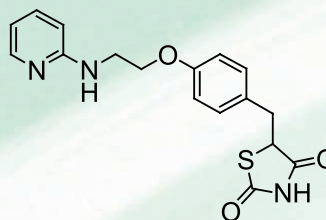
(1) for non labelled molecule

Metabolites

N-Desmethylosiglitazone

MM8033

- > CAS number 257892-31-2
- > Molecular weight 343.41
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

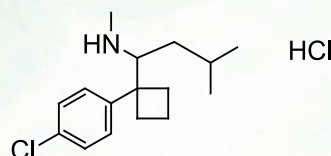


$\text{C}_{17}\text{H}_{17}\text{N}_3\text{O}_3\text{S}$

N-Monodesmethyisbutramine Hydrochloride

MM8223

- > CAS number 84467-94-7
- > Molecular weight 302.29
- > Size 5 mg; 10 mg; 25 mg
- > % purity $> 97.5\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice



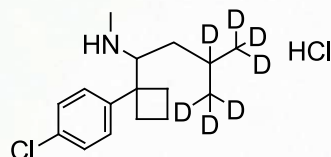
HCl

$\text{C}_{16}\text{H}_{25}\text{Cl}_2\text{N}$

N-Monodesmethyisbutramine-D₇ Hydrochloride

MI8222

- > CAS number 84467-94-7 (1)
- > Molecular weight 309.33
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity $> 95\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice



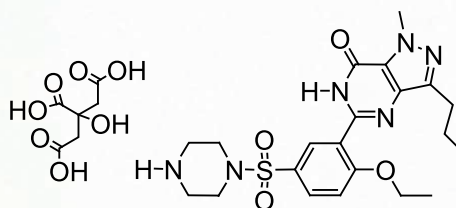
HCl

$\text{C}_{16}\text{H}_{18}\text{Cl}_2\text{ND}_7$

Desmethylosildenafil Citrate

MM7949

- > CAS number NDA
- > Molecular weight 652.69
- > Size 25 mg; 50 mg; 100 mg
- > % purity $> 95\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

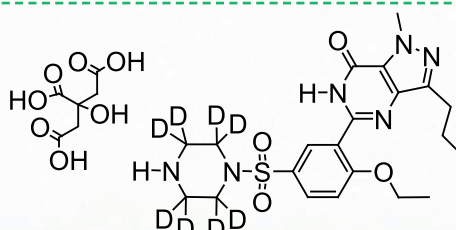


$\text{C}_{27}\text{H}_{36}\text{N}_6\text{O}_{11}\text{S}$

Desmethylosildenafil-D₈ Citrate

MI7950

- > CAS number NDA
- > Molecular weight 660.73
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity $> 95\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice



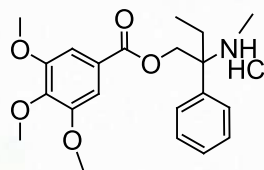
$\text{C}_{27}\text{H}_{28}\text{N}_6\text{O}_{11}\text{SD}_8$

(1) for non labelled molecule

N-Desmethyltrimebutine Hydrochloride

MM7951

- > CAS number 294882-33-0
- > Molecular weight 409.91
- > Size 10 mg; 25 mg; 50 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

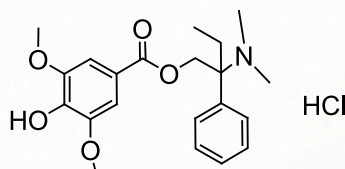


$C_{21}H_{28}ClNO_5$

O-Desmethyltrimebutine Hydrochloride

MM7952

- > CAS number 118291-70-6
- > Molecular weight 409.91
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

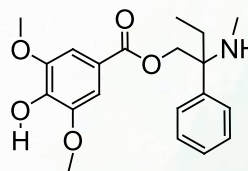


$C_{22}H_{28}ClNO_5$

N-Desmethyl-O-Desmethyltrimebutine

MM7953

- > CAS number 118291-70-6
- > Molecular weight 359.43
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

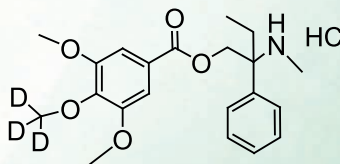


$C_{20}H_{25}NO_5$

N-Desmethyltrimebutine-D₃ Hydrochloride

MI7958

- > CAS number 294882-33-0 (1)
- > Molecular weight 412.93
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

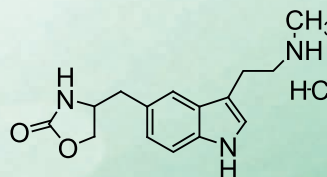


$C_{21}H_{25}ClNO_5D_3$

N-Desmethylzolmitriptan Hydrochloride

MM8058

- > CAS number NDA
- > Molecular weight 309.80
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice



$C_{15}H_{20}ClN_3O_2$

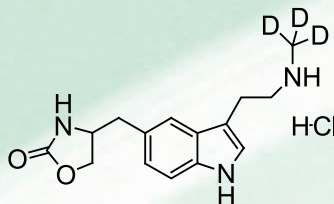
(1) for non labelled molecule

Metabolites

N-Desmethylzolmitriptan-D₃ Hydrochloride

MI8059

- > CAS number NDA
- > Molecular weight 312.82
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice

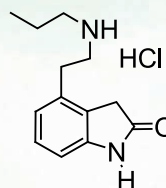


C₁₅H₁₇ClN₃O₂D₃

Despropylropinirole Hydrochloride

MM7946

- > CAS number 173990-76-6
- > Molecular weight 254.76
- > Size 5 mg; 10 mg; 25 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

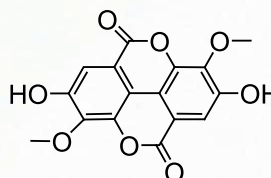


C₁₃H₁₉ClN₂O

3,3'-Di-O-Methylellagic Acid

MR7960

- > CAS number 2239-88-5
- > Molecular weight 330.25
- > Size 5 mg; 10 mg; 25 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

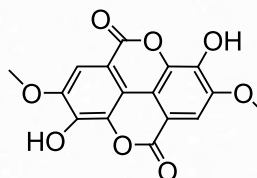


C₁₆H₁₀O₈

4,4'-Di-O-Methylellagic Acid

MR7959

- > CAS number 3374-77-4
- > Molecular weight 330.25
- > Size 5 mg; 10 mg; 25 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

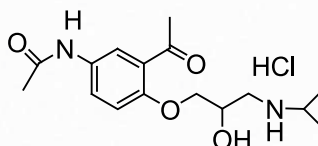


C₁₆H₁₀O₈

Diacetolol Hydrochloride

MM7886

- > CAS number 73899-76-0
- > Molecular weight 345.85
- > Size 10 mg; 25 mg; 50 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

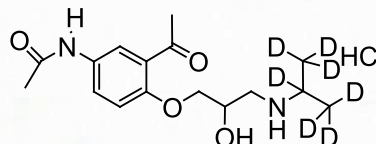


C₁₆H₂₅ClN₂O₄

Diacetolol-D₇ Hydrochloride

MI7887

- > CAS number 73899-76-0 (1)
- > Molecular weight 351.88
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

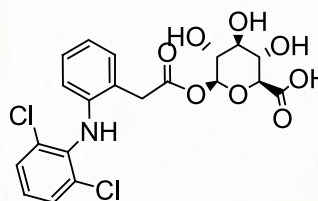


C₁₆H₁₈ClN₂O₄D₇

Diclofenac Acyl-D-Glucuronide

MM8081

- > CAS number 64118-81-6
- > Molecular weight 472.28
- > Size 5 mg; 10 mg; 25 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice

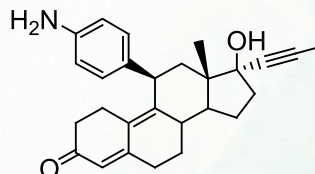


C₂₀H₁₉Cl₂NO₈

Didesmethylmifepristone (RU42848)

MM8043

- > CAS number 104004-92-4
- > Molecular weight 401.55
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice

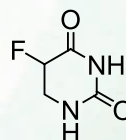


C₂₇H₃₁NO₂

5,6-Dihydrofluorouracil

MR8035

- > CAS number 696-06-0
- > Molecular weight 132.10
- > Size 5 mg; 10 mg; 25 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice

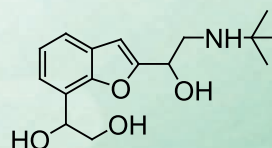


C₄H₅FN₂O₂

1',2'-Dihydroxybufuralol

M02038

- > CAS number NDA
- > Molecular weight 293.36
- > Size 5 mg; 10 mg; 25 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice



C₁₆H₂₃NO₄

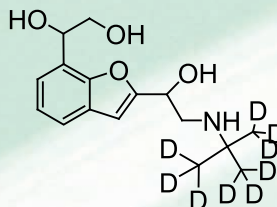
(1) for non labelled molecule

Metabolites

1',2'-Dihydroxybufuralol-D₉

M02039

- > CAS number NDA
- > Molecular weight 302.41
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

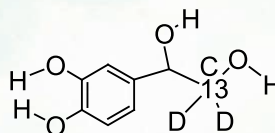


C₁₆H₁₄NO₄D₉

DL-3,4-Dihydroxyphenyl Glycol-D₂ ¹³C

MI7983

- > CAS number 28822-73-3 (1)
- > Molecular weight 173.17
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

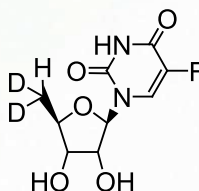


¹³CC₇H₈O₄D₂

5-Doxifluridine-D₂ (5-DFUR-D₂)

MI7902

- > CAS number 84258-25-3
- > Molecular weight 248.21
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

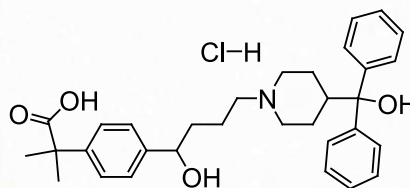


C₉H₉FN₂O₅D₂

Fexofenadine Hydrochloride

AP8109

- > CAS number 153439-40-8
- > Molecular weight 538.13
- > Size 50 mg; 100 mg; 250 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice

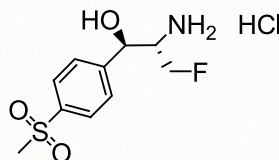


C₃₂H₄₀ClNO₄

Florfenicolamine Hydrochloride

MM7980

- > CAS number 108656-33-3
- > Molecular weight 283.75
- > Size 25 mg; 50 mg; 100 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice



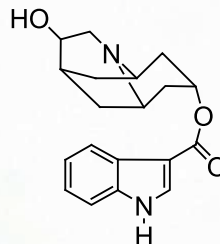
C₁₀H₁₅ClFNO₃S

(1) for non labelled molecule

Hydrodolasetron

MM7912

- > CAS number 163253-02-9
- > Molecular weight 326.40
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

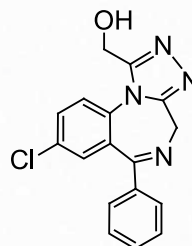


$C_{19}H_{22}N_2O_3$

Hydroxyalprazolam

MM7889

- > CAS number 37115-43-8
- > Molecular weight 324.77
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

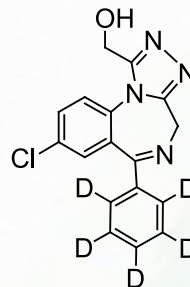


$C_{17}H_{13}ClN_4O$

Hydroxyalprazolam-D₅

MI7890

- > CAS number 136765-24-7
- > Molecular weight 329.80
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

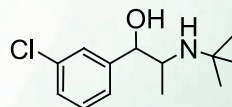


$C_{17}H_8ClN_4OD_5$

Dihydrobupropion

MM7896

- > CAS number 119802-68-5
- > Molecular weight 241.76
- > Size 10 mg; 25 mg; 50 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

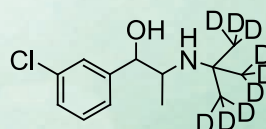


$C_{13}H_{20}ClNO$

Dihydrobupropion-D₉

MI7897

- > CAS number 119802-68-5 (1)
- > Molecular weight 250.82
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice



$C_{13}H_{11}ClNOD_9$

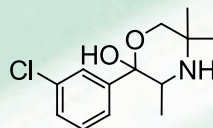
(1) for non labelled molecule

Metabolites

Hydroxybupropion [Mixture of (R,R) and (S,S)]

MM8217

- > CAS number 357399-43-0
- > Molecular weight 326.03
- > Size 10 mg; 25 mg; 50 mg
- > % purity > 97,5 %
- > Storage temp. +4°C
- > Shipping wet ice

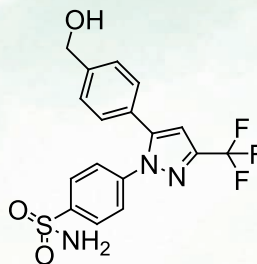


C₁₃H₁₈ClNO₂

Hydroxycelecoxib

MM8192

- > CAS number 170571-00-3
- > Molecular weight 397.38
- > Size 25 mg; 50 mg; 100 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

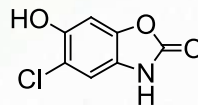


C₁₇H₁₄F₃N₃O₃S

6-Hydroxychlorzoxazone

M02003

- > CAS number 1750-45-4
- > Molecular weight 185.56
- > Size 5 mg; 10 mg; 50 mg
- > % purity > 97 %
- > Storage temp. +4°C
- > Shipping wet ice

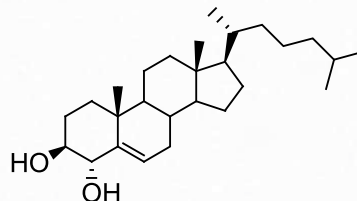


C₇H₄ClNO₃

4-α-Hydroxycholesterol

MM8189

- > CAS number 34310-86-6
- > Molecular weight 402.67
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

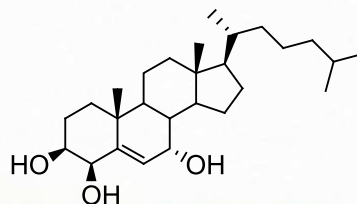


C₂₇H₄₆O₂

4-β, 7-α-Dihydroxycholesterol

MM8233

- > CAS number 38753-77-4
- > Molecular weight 418.67
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity > 98 %
- > Storage temp. +4°C
- > Shipping wet ice

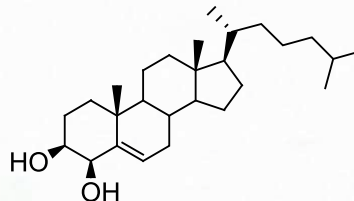


C₂₇H₄₆O₃

4-β-Hydroxycholesterol

MM8190

- > CAS number 17320-10-4
- > Molecular weight 402.67
- > Size 5 mg; 10 mg; 25 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

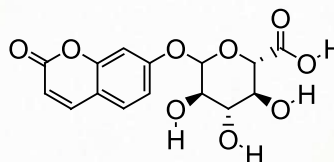


C₂₇H₄₆O₂

7-Hydroxycoumarin-O-β-D-Glucuronide

M02047

- > CAS number 66695-14-5
- > Molecular weight 338.26
- > Size 5 mg; 10 mg; 25 mg
- > % purity > 97 %
- > Storage temp. +4°C
- > Shipping wet ice

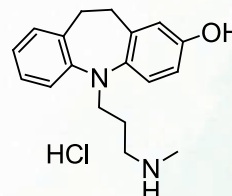


C₁₅H₁₄O₉

2-Hydroxydesipramine Hydrochloride

MM7914

- > CAS number 59259-75-5
- > Molecular weight 318.85
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

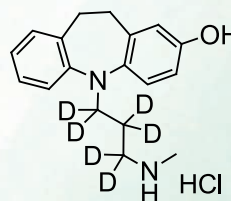


C₁₈H₂₃ClN₂O

2-Hydroxydesipramine-D₆ Hydrochloride

MI7915

- > CAS number 59259-75-5 (1)
- > Molecular weight 324.89
- > Size 5 mg; 10 mg; 25 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

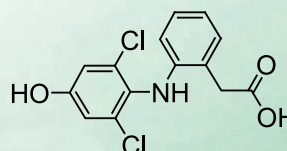


C₁₈H₁₇ClN₂OD₆

4'-Hydroxydiclofenac

M02004

- > CAS number 64118-84-9
- > Molecular weight 312.15
- > Size 5 mg; 10 mg; 50 mg
- > % purity > 97 %
- > Storage temp. +4°C
- > Shipping wet ice



C₁₄H₁₁Cl₂NO₃

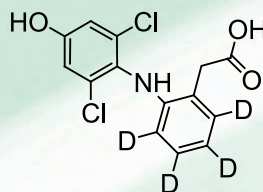
(1) for non labelled molecule

Metabolites

4'-Hydroxydiclofenac-D₄

M02041

- > CAS number 254762-27-1
- > Molecular weight 316.17
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

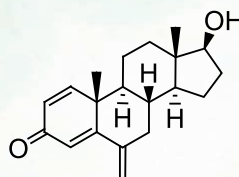


C₁₄H₇Cl₂NO₃D₄

17-β Hydroxyexemestane

MM7962

- > CAS number 3347-73-7
- > Molecular weight 298.43
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

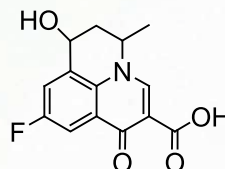


C₂₀H₂₆O₂

7-Hydroxyflumequine

MM7965

- > CAS number 61293-22-9
- > Molecular weight 277.25
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

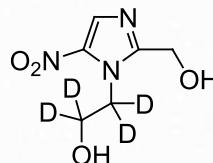


C₁₄H₁₂FNO₄

Hydroxymetronidazole-D₄

MI7924

- > CAS number 4812-40-2 (1)
- > Molecular weight 191.18
- > Size 5 mg; 10 mg; 25 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

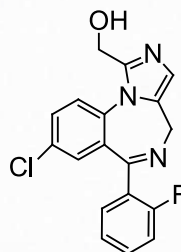


C₆H₅N₃O₄D₄

1'-Hydroxymidazolam

M02040

- > CAS number 59468-90-5
- > Molecular weight 341.77
- > Size 5 mg; 10 mg; 25 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice



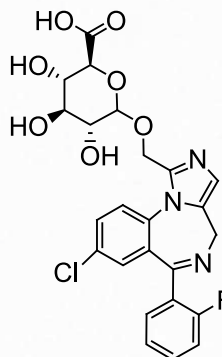
C₁₈H₁₃ClFN₃O

(1) for non labelled molecule

1'-Hydroxymidazolam-O-β-D-Glucuronide

M02044

- > CAS number 81256-81-7
- > Molecular weight 517.89
- > Size 1 mg; 5 mg; 10 mg
- > % purity > 98 %
- > Storage temp. +4°C
- > Shipping wet ice

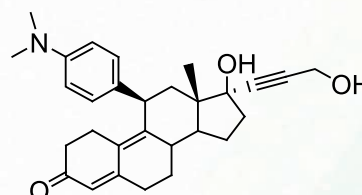


$C_{24}H_{21}ClFN_3O_7$

Hydroxymifepristone (RU42698)

MM8020

- > CAS number 105012-15-5
- > Molecular weight 445.61
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice

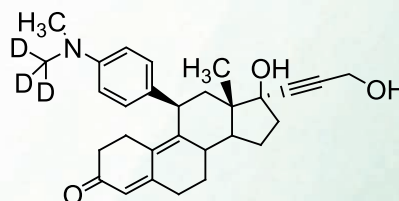


$C_{29}H_{35}NO_3$

Hydroxymifepristone-D₃ (RU42698-D₃)

MI8022

- > CAS number 105012-15-5 (1)
- > Molecular weight 448.63
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice

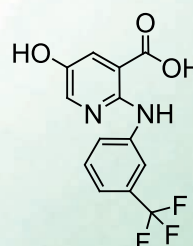


$C_{29}H_{32}NO_3D_3$

5-Hydroxyniflumic Acid

MM8031

- > CAS number 42240-83-5
- > Molecular weight 298.22
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice



$C_{13}H_9F_3N_2O_3$

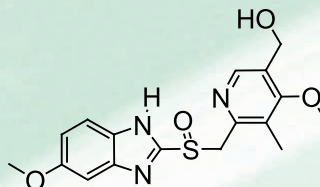
(1) for non labelled molecule

Metabolites

5-Hydroxyomeprazole

MM7932

- > CAS number 92340-57-3
- > Molecular weight 361.42
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity > 97 %
- > Storage temp. +4°C
- > Shipping wet ice

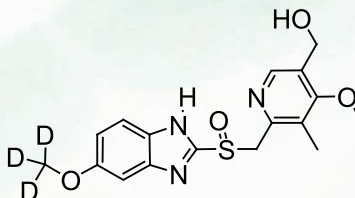


C₁₇H₁₉N₃O₄S

5-Hydroxyomeprazole-D₃

MI8213

- > CAS number 92340-57-3 (1)
- > Molecular weight 364.44
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

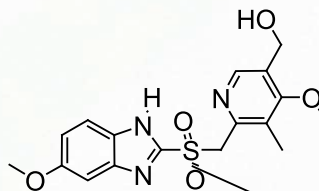


C₁₇H₁₆N₃O₄SD₃

5-Hydroxyomeprazole Sulfone

MM7933

- > CAS number 151602-51-6
- > Molecular weight 377.42
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

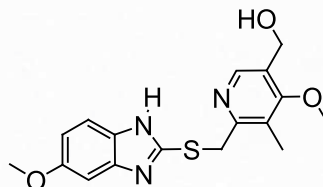


C₁₇H₁₉N₃O₅S

5-Hydroxyomeprazole Sulphide

MM7931

- > CAS number 103876-99-9
- > Molecular weight 345.42
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity > 90 %
- > Storage temp. +4°C
- > Shipping wet ice

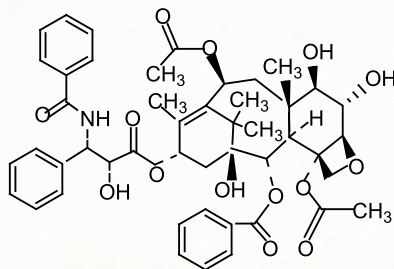


C₁₇H₁₉N₃O₃S

6α-Hydroxypaclitaxel

M02006

- > CAS number 153212-75-0
- > Molecular weight 869.91
- > Size 20 nmol
- > % purity > 97 %
- > Storage temp. -20°C
- > Shipping dry ice



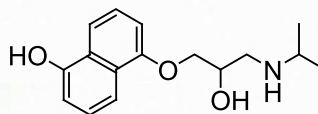
C₄₇H₅₁NO₁₅

(1) for non labelled molecule

5-Hydroxypropranolol

M02015

- > CAS number 81907-82-6
- > Molecular weight 275.34
- > Size 5 mg
- > % purity $\geq 95\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

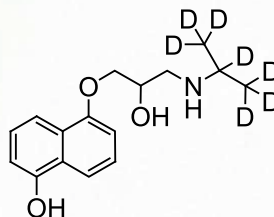


$\text{C}_{16}\text{H}_{21}\text{NO}_3$

5-Hydroxypropranolol-D₇

M02042

- > CAS number 81907-82-6 (1)
- > Molecular weight 282.39
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity $> 95\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

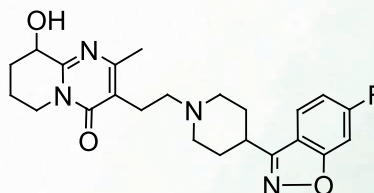


$\text{C}_{16}\text{H}_{14}\text{NO}_3\text{D}_7$

9-Hydroxyrisperidone

MM7943

- > CAS number 144598-75-4
- > Molecular weight 426.50
- > Size 10 mg; 25 mg; 50 mg
- > % purity $> 95\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

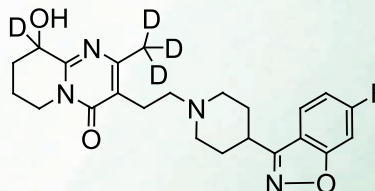


$\text{C}_{23}\text{H}_{27}\text{FN}_4\text{O}_3$

9-Hydroxyrisperidone-D₄

MI7944

- > CAS number 144598-75-4 (1)
- > Molecular weight 430.52
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity $> 95\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

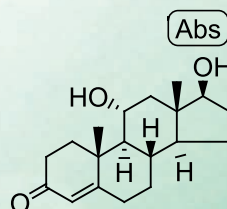


$\text{C}_{23}\text{H}_{23}\text{FN}_4\text{O}_3\text{D}_4$

11 α -Hydroxytestosterone

M02007

- > CAS number 3066-12-4
- > Molecular weight 304.42
- > Size 5 mg
- > % purity $> 97\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice



$\text{C}_{19}\text{H}_{28}\text{O}_3$

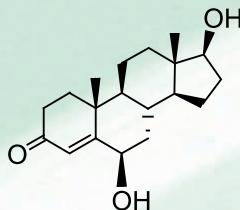
(1) for non labelled molecule

Metabolites

6β-Hydroxytestosterone

M02008

- > CAS number 62-99-7
- > Molecular weight 304.42
- > Size 5 mg; 25 mg; 50 mg
- > % purity > 97 %
- > Storage temp. +4°C
- > Shipping wet ice

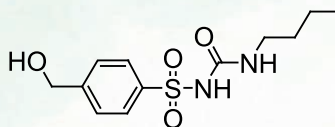


C₁₉H₂₈O₃

4-Hydroxytolbutamide

M02009

- > CAS number 5719-85-7
- > Molecular weight 286.35
- > Size 5 mg
- > % purity > 97 %
- > Storage temp. +4°C
- > Shipping wet ice

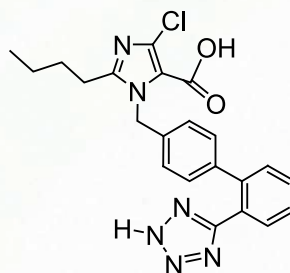


C₁₂H₁₈N₂O₄S

Losartan Acid Metabolite (EXP3174)

MM7918

- > CAS number 124750-92-1
- > Molecular weight 436.90
- > Size 25 mg; 50 mg; 100 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

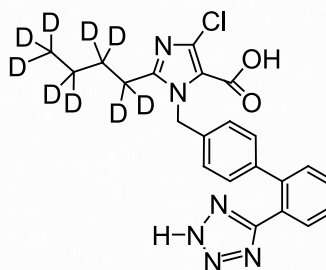


C₂₂H₂₁ClN₆O₂

Losartan-D₉ Acid Metabolite (EXP3174-D₉)

MI7919

- > CAS number 124750-92-1 (1)
- > Molecular weight 445.96
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

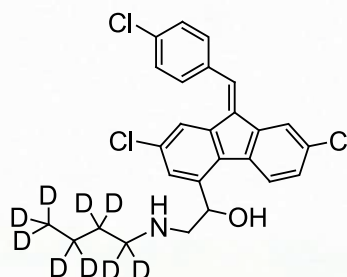


C₂₂H₁₂ClN₆O₂D₉

Desbutyl-Lumefantrine-D₉

MI8200

- > CAS number 252990-19-5
- > Molecular weight 481.90
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice



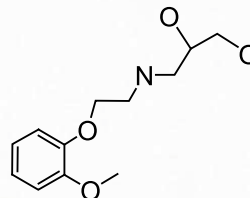
C₂₆H₁₅Cl₃NOD₉

(1) for non labelled molecule

Metabolite M8 of Carvedilol

MM8019

- > CAS number NDA
- > Molecular weight 241.28
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

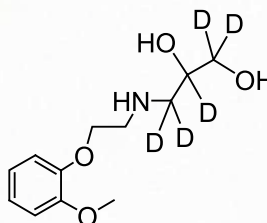


$C_{12}H_{19}NO_4$

Metabolite M8 of Carvedilol-D₅

MI8044

- > CAS number NDA
- > Molecular weight 246.31
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

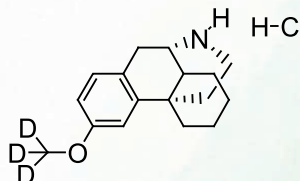


$C_{12}H_{14}NO_4D_5$

3-Methoxymorphinan-D₃ Hydrochloride

MI8207

- > CAS number 36397-14-5 (1)
- > Molecular weight 296.86
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

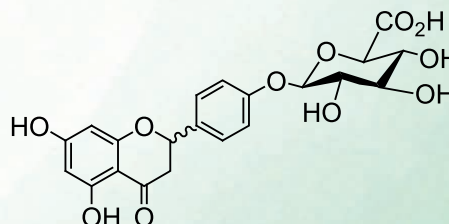


$C_{17}H_{21}ClNO_3D_3$

Naringenin-4'-O-β-D-Glucuronide

M02045

- > CAS number 158196-35-1
- > Molecular weight 448.38
- > Size 100 µg; 500 µg; 1 mg
- > % purity > 88 %
- > Storage temp. +4°C
- > Shipping wet ice



$C_{21}H_{20}O_{11}$

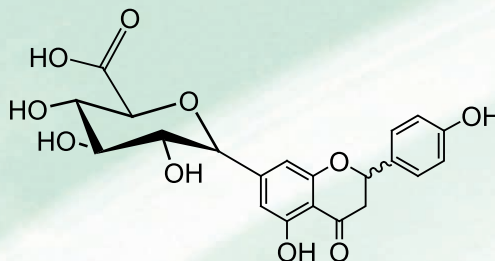
(1) for non labelled molecule

Metabolites

Naringenin-7-O-β-D-Glucuronide

M02046

- > CAS number 158196-34-0
- > Molecular weight 448.38
- > Size 1 mg; 5 mg; 10 mg
- > % purity > 98 %
- > Storage temp. +4°C
- > Shipping wet ice

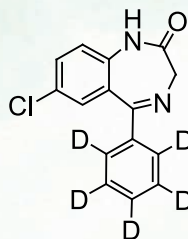


C₂₁H₂₀O₁₁

Nordiazepam-D₅

MI7925

- > CAS number 65891-80-7
- > Molecular weight 275.75
- > Size 5 mg; 10 mg; 25 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

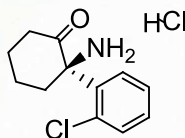


C₁₅H₆ClN₂OD₅

(R)-Norketamine Hydrochloride

MM8027

- > CAS number NDA
- > Molecular weight 260.17
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice

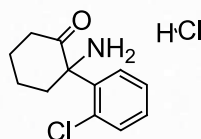


C₁₂H₁₅Cl₂NO

(R,S)-Norketamine Hydrochloride

MM8025

- > CAS number 79499-59-5
- > Molecular weight 260.17
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice

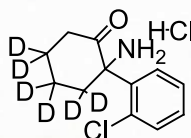


C₁₂H₁₅Cl₂NO

(R,S)-Norketamine-D₆ Hydrochloride

MI8028

- > CAS number 79499-59-5 (1)
- > Molecular weight 266.20
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice



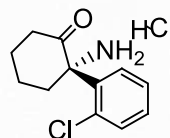
C₁₂H₉Cl₂NOD₆

(1) for non labelled molecule

(S)-Norketamine Hydrochloride

MM8026

- > CAS number NDA
- > Molecular weight 260.17
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

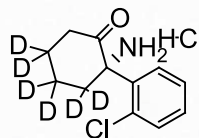


$\text{C}_{12}\text{H}_{15}\text{Cl}_2\text{NO}$

(S)-Norketamine-D₆ Hydrochloride

MI8036

- > CAS number NDA
- > Molecular weight 266.20
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

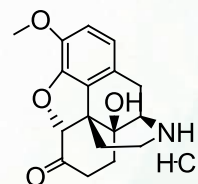


$\text{C}_{12}\text{H}_9\text{Cl}_2\text{NOD}_6$

Noroxycodone Hydrochloride (N-desmethyloxycodone)

MM8024

- > CAS number 52446-52-0
- > Molecular weight 337.81
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

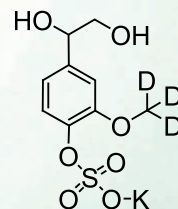


$\text{C}_{17}\text{H}_{20}\text{ClNO}_4$

MHPG Sulfate-D₃ Potassium Salt

MI8013

- > CAS number 71324-20-4 (1)
- > Molecular weight 305.37
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity $> 95\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

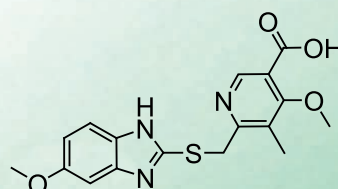


$\text{C}_9\text{H}_8\text{KO}_7\text{SD}_3$

Omeprazole Sulfide 5-Carboxylic Acid

MM7934

- > CAS number 103877-00-5
- > Molecular weight 359.41
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity $> 95\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice



$\text{C}_{17}\text{H}_{17}\text{N}_3\text{O}_4\text{S}$

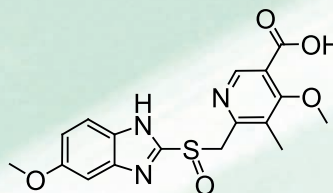
(1) for non labelled molecule

Metabolites

Omeprazole 5-Carboxylic Acid

MM7935

- > CAS number 120003-72-7
- > Molecular weight 375.41
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

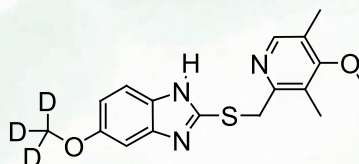


C₁₇H₁₇N₃O₅S

Omeprazole-D₃ Sulfide

MI8016

- > CAS number 73590-85-9 (1)
- > Molecular weight 332.44
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

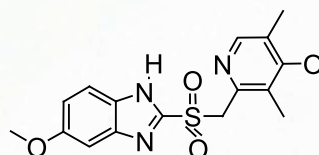


C₁₇H₁₆N₃O₂SD₃

Omeprazole Sulfone

MM8018

- > CAS number 88546-55-8
- > Molecular weight 361.42
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice

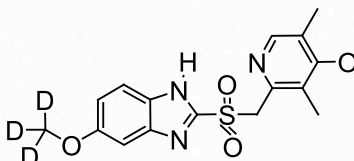


C₁₇H₁₉N₃O₄S

Omeprazole-D₃ Sulfone

MI8017

- > CAS number 88546-55-8 (1)
- > Molecular weight 364.44
- > Size 5 mg; 10 mg; 25 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

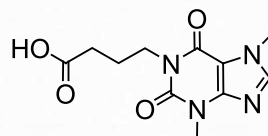


C₁₇H₁₆N₃O₄SD₃

Pentoxifylline Acid Metabolite (1-(4-carboxybutyl)-3,7-dimethyl-xanthine)

MM7939

- > CAS number 6493-07-8
- > Molecular weight 266.26
- > Size 10 mg; 25 mg; 50 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice



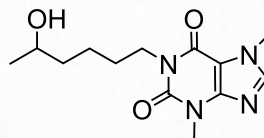
C₁₁H₁₄N₄O₄

(1) for non labelled molecule

Pentoxifylline Alcohol Metabolite (1-(5-hydroxyhexyl)-3,7-dimethyl-xanthine)

MM7938

- > CAS number 6493-06-7
- > Molecular weight 280.33
- > Size 10 mg; 25 mg; 50 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

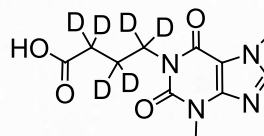


$C_{13}H_{20}N_4O_3$

Pentoxifylline-D₆ Acid Metabolite

MI7940

- > CAS number 6493-07-8 (1)
- > Molecular weight 272.29
- > Size 10 mg; 25 mg; 50 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

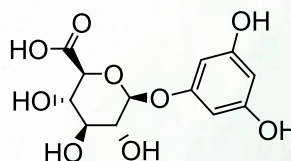


$C_{11}H_8N_4O_4D_6$

Phloroglucinol-1-β-O-Glucuronide

MM8227

- > CAS number 50602-76-1
- > Molecular weight 302.24
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity > 98 %
- > Storage temp. +4°C
- > Shipping wet ice

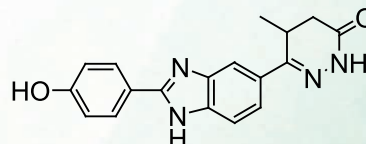


$C_{12}H_{14}O_9$

O-Desmethyl-Pimobendan (UD-CG 212)

MM8205

- > CAS number 142279-94-5
- > Molecular weight 320.35
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity > 98 %
- > Storage temp. +4°C
- > Shipping wet ice

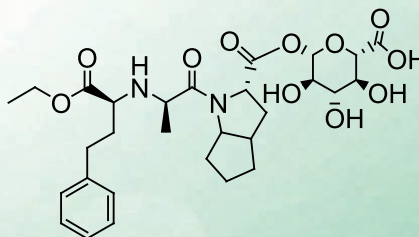


$C_{18}H_{16}N_4O_2$

Ramipril Acyl-D-Glucuronide

MM8080

- > CAS number NDA
- > Molecular weight 592.65
- > Size 5 mg; 10 mg; 25 mg
- > % purity ≥ 98 %
- > Storage temp. +4°C
- > Shipping wet ice



$C_{29}H_{40}N_2O_{11}$

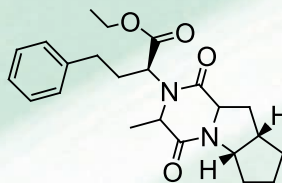
(1) for non labelled molecule

Metabolites

Ramipril Diketopiperazine (EP impurity D)

MR8071

- > CAS number 108731-95-9
- > Molecular weight 398.51
- > Size 2.5 mg; 5 mg; 10 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

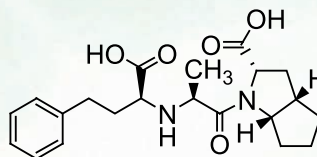


$\text{C}_{23}\text{H}_{30}\text{N}_2\text{O}_4$

Ramiprilat

MM8070

- > CAS number 87269-97-4
- > Molecular weight 388.47
- > Size 5 mg; 10 mg; 25 mg
- > % purity $\geq 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

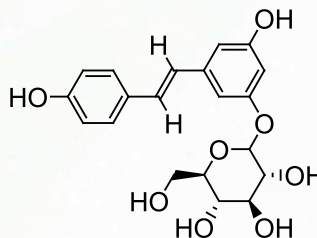


$\text{C}_{21}\text{H}_{28}\text{N}_2\text{O}_5$

Resveratrol 3-O-D-Glucoside (piceid)

M02035

- > CAS number 27208-80-6
- > Molecular weight 390.38
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity $> 95\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

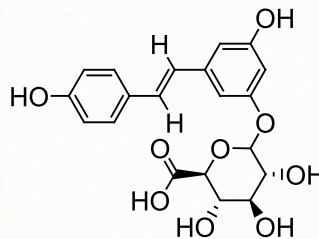


$\text{C}_{20}\text{H}_{22}\text{O}_8$

Resveratrol 3-O-D-Glucuronide

M02036

- > CAS number 387372-17-0
- > Molecular weight 404.37
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity $> 95\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

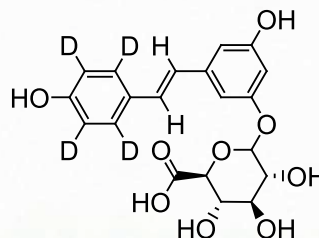


$\text{C}_{20}\text{H}_{20}\text{O}_9$

Resveratrol-3-O-D-Glucuronide D₄

MI8218

- > CAS number NDA
- > Molecular weight 408.40
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity $> 98\%$
- > Storage temp. $+4^{\circ}\text{C}$
- > Shipping wet ice

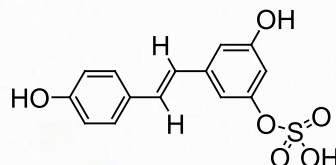


$\text{C}_{204}\text{H}_{16}\text{O}_9\text{D}_4$

Resveratrol 3-O-Sulfate

MM8199

- > CAS number 553662-69-4
- > Molecular weight 308.31
- > Size 1 mg; 5 mg; 10 mg
- > % purity > 98 %
- > Storage temp. +4°C
- > Shipping wet ice

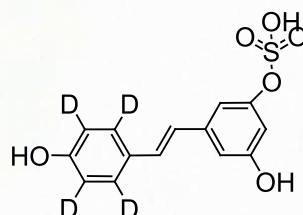


$C_{14}H_{12}O_6S$

Resveratrol-3'-O-Sulfate Minimum D₄

MI8220

- > CAS number NDA
- > Molecular weight 312.34
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity > 98 %
- > Storage temp. +4°C
- > Shipping wet ice

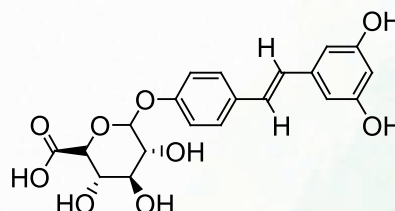


$C_{14}H_8O_6SD_4$

Resveratrol 4'-O-D-Glucuronide

M02037

- > CAS number 387372-20-5
- > Molecular weight 404.37
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity > 95 %
- > Storage temp. +4°C
- > Shipping wet ice

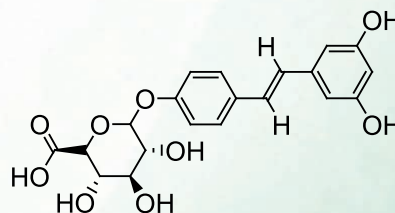


$C_{20}H_{20}O_9$

Resveratrol-4'-O-D-Glucuronide Minimum D₄

MI8219

- > CAS number NDA
- > Molecular weight 408.40
- > Size 1 mg; 2.5 mg; 5 mg
- > % purity > 98 %
- > Storage temp. +4°C
- > Shipping wet ice

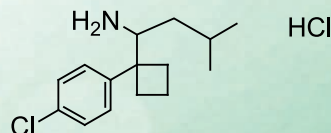


$C_{20}H_{16}O_9D_4$

N,N-Didesmethylsibutramine Hydrochloride

MM8225

- > CAS number 84467-54-9
- > Molecular weight 288.26
- > Size 5 mg; 10 mg; 25 mg
- > % purity > 98 %
- > Storage temp. +4°C
- > Shipping wet ice



$C_{15}H_{23}Cl_2N$

Substrates / APIs Metabolites synoptic chart

Substrates / APIs	ref.	page	Metabolites	ref.	page
Acebutolol	NDA	-	Diacetolol Hydrochloride Diacetolol-D ₇ Hydrochloride	MM7886 MI7887	60 61
Aceclofenac	AP8073	9			
Acetaminophen-D ₃	MI7988	9	Acetaminophen Sulphate Potassium Salt	MM7989	52
Acrivastine	AP8074	9			
Acyclovir Sodium Salt	AP8075	9			
Adrafinil	AP8076	10			
Adrenaline-D ₃ Hydrochloride [(+/-)epinephrine-D ₃]	MI8050	10			
Alprazolam	AP8077	10	Hydroxyalprazolam	MM7889	63
Alprazolam-D ₅	MI7888	10	Hydroxyalprazolam-D ₅	MI7890	63
Amiodarone Hydrochloride	M02026	11	Mono-N-Desethylamiodarone Hydrochloride (MDEA)	MM7892	56
Amiodarone-D ₄ Hydrochloride	MI7891	11	Mono-N-Desethylamiodarone-D ₄ Hydrochloride (MDEA-D ₄)	MI7893	56
Amlodipine	AP8078	11			
Amlodipine-D ₃	MI7974	11			
Amlodipine-D ₄ Besylate	MI7981	11			
Anastrozole	AP8079	12			
Androstane-3 α -17 β -Diol-D ₃	MI8248	12	Androstane-3 α , 17 β -Diol-3-O- β -D-Glucuronide-D ₃ Androstane-3 α , 17 β -Diol-17-O- β -D-Glucuronide	MI8239 MM8235	52 53
Androstane-3 β -17 β -Diol-D ₃	MI8250	12	Androstane 3 β , 17 β -Diol-3-O- β -D-Glucuronide-D ₃ Androstane-3- β , 17- β -Diol-17-O- β -D-Glucuronide	MI8240 MM8236	52 53
Androsterone	NDA		Androsterone Glucuronide	MM8234	53
Androsterone-D ₅	MI8247	12	Androsterone Glucuronide-D ₄ Androsterone Glucuronide-D ₅	MI8238 MI8242	53 53
Epi Androsterone-D ₅	MI8237	12	Epi Androsterone- β -Glucuronide	MM8249	54
Aripiprazole	AP8080	13			
Aripiprazole-D ₈	MI7894	13			
Artemether-D ₃	MI8203	13			
Atazanavir	AP8081	13			
Atorvastatin Calcium Salt	AP8082	14			
Benazepril Hydrochloride	AP8083	14			
Bezafibrate	AP8084	14			
Bufuralol	M02027	14	1',2'-Dihydroxybufuralol	M02038	61
Bufuralol-D ₃ Hydrochloride	MI8034	14	1',2'-Dihydroxybufuralol-D ₃	M02039	62
Bupropion Hydrochloride	M02024	15	Hydroxy Bupropion [Mixture of (R,R) and (S,S)] Dihydrobupropion	MM8217 MM7896	64 63
Bupropion-D ₉ Hydrochloride	MI7895	15	Dihydrobupropion-D ₉	MI7897	63
1,4 Butanediol Mononitrate-D ₃	MI8060	15			
Capecitabine	NDA		5,6-Dihydrofluorouracil	MR8035	61
Capecitabine-D ₈	MI7986	15	Deoxy-5-Fluorocytidine-D ₂ (5-DFCR-D ₂)	MI7900	55
Capecitabine-D ₁₁	MI7898	15	Deoxy-5-Fluorocytidine (5-DFCR) 5-Doxifluridine-D ₂ (5-DFUR-D ₂)	MM7899 MI7902	55 62
Carboplatin	AP8086	16			
Carprofen	AP8087	16			
Carvedilol	AP8088	16	Metabolite M8 of Carvedilol	MM8019	71
Carvedilol-D ₅	MI7993	16	Metabolite M8 of Carvedilol-D ₅	MI8044	71
Catharanthine	AP8089	16			
Ceftiofur-D ₃	MI7903	17			
Celecoxib	NDA		Celecoxib Carboxylic Acid Hydroxycelecoxib	MM8191 MM8192	54 64
Cetirizine Dihydrochloride	AP8090	17			
Chlorzoxazone	M02017	18	6-Hydroxychlorzoxazone Chlorzoxazone N-Glucuronide	M02003 M02048	64 54
Cholesterol	NDA		4- α -Hydroxycholesterol 4- β -Hydroxycholesterol 4- β , 7- α -Dihydroxycholesterol	MM8189 MM8190 MM8233	64 65 64
Ciprofloxacin Hydrochloride	AP8091	18			
Clonazepam	AP8092	19	7-Aminoclonazepam	MM7905	52
Clonazepam-D ₄	MI7904	19	7-Aminoclonazepam-D ₄	MI7906	52
Clopidogrel Hydrogen Sulfate	AP8093	19	Clopidogrel Carboxylic Acid	MM7908	54
Clopidogrel-D ₃ Hydrogen Sulfate	MI7907	19			
Clozapine	AP8094	19	Desmethylclozapine	MM7910	56
Clozapine-D ₃	MI7909	20			
Codeine-D ₃	MI8051	20			

Substrates / APIs Metabolites synoptic chart

7-Hydroxycoumarin	NDA		7-Hydroxycoumarin-O-β-D-Glucuronide	M02047	65
Cyproterone Acetate	AP8095	20			
Darifenacin Hydrobromide	AP8096	20			
Deltamethrin-D ₅ - ¹³ C (M+6)	MI8045	20			
Desipramine	NDA		2-Hydroxydesipramine Hydrochloride	MM7914	65
			2-Hydroxydesipramine-D ₆ Hydrochloride	MI7915	65
3,4-Diaminopyridine-D ₃	MI7987	21			
Diazepam-D ₅	MI7911	21	Nordiazepam-D ₅	MI7925	72
Diclofenac Sodium Salt	M02018	22	4'-Hydroxydiclofenac	M02004	65
			Diclofenac Acyl-D-Glucuronide	MM8081	61
Diclofenac-D ₄	MI7995	22	4'-Hydroxydiclofenac-D ₄	M02041	66
Didanosine	AP8098	22			
N,N-Diethyltoluamide-D ₁₀	MI8068	22			
Digoxin-D ₃	MI7956	23			
Dihydroergotamine Methanesulfonate	AP8099	23			
Diltiazem	NDA		Deacetyldiltiazem	MM7969	54
			N-Desmethyldiltiazem	MM7970	56
Diltiazem-D ₄	MI7971	23	Deacetyldiltiazem-D ₄	MI7973	55
			N-Desmethyldiltiazem-D ₄	MI7972	57
Docetaxel	AP8100	23			
Dolasetron Mesylate Monohydrate	AP8101	24	Hydrodolasetron	MM7912	63
Donepezil Hydrochloride	AP8102	24			
Donepezil-D ₇	MI7913	24			
Dutasteride	AP8104	24			
Efavirenz ¹³ C ₆	MI8014	24			
Ellagic Acid	NDA		3,3'-Di-O-Methylellagic Acid	MR7960	60
			4,4'-Di-O-Methylellagic Acid	MR7959	60
Emtricitabine	AP8105	25			
Entacapone	AP8106	25			
Entacapone-D ₁₀ (E isomer)	MI7982	25			
Ethynyl Estradiol M+6	MI8230	25			
Exemestane	NDA		17-β Hydroxyexemestane	MM7962	66
Famciclovir	AP8107	26			
Felodipine	AP8108	26			
Felodipine-D ₃	MI7975	26			
Fipronil	AP8110	26			
Florfenicol	AP8111	26	Florfenicolamine Hydrochloride	MM7980	62
Floxuridine	AP8112	27			
Fluconazole	AP8113	27			
Flumequine	AP8114	27	7-Hydroxyflumequine	MM7965	66
Flurazepam	NDA		Desalkylflurazepam	MM8097	55
Gemcitabine Hydrochloride	AP8115	27			
Homo-Tienilic Alcohol	M02002	27			
HRP 2000 (VA-2914)-D ₃	MI8055	28	Mono-Desmethyl HRP 2000 (VA-3877)-D ₃	MI8056	57
Hydrochlorothiazide	AP8116	28			
Hydrochlorothiazide-D ₂ , 15N2	MI7916	28			
Imazalil	AP8117	28			
Imidapril	AP8118	28			
Indobufen	AP8119	29			
Ioversol	AP8120	29			
Irbesartan	AP8121	29			
Isosorbide Nitrate	AP8122	29			
Ketamine	NDA		(R)-Norketamine Hydrochloride	MM8027	72
			(R,S)-Norketamine Hydrochloride	MM8025	72
Ketamine-D ₆ Hydrochloride	MI8012	29	(R,S)-Norketamine-D ₆ Hydrochloride	MI8028	72
			(S)-Norketamine Hydrochloride	MM8026	73
			(S)-Norketamine-D ₆ Hydrochloride	MI8036	73
Ketoconazole	AP8123	30	Deacylketoconazole	MM7979	55
Ketoconazole-D ₃	MI7978	30			
Ketoprofen	AP8124	30			
Ketoprofen-D ₃	MI8003	30			
Kynuramine, 2HBr	MM8211	30			
Kynuramine- ¹³ C, D ₂ , 2HBr	MI8212	31			

Substrates / APIs Metabolites synoptic chart

Kresoxim-Methyl (Z)-Isomer; [methyl (E)-methoxyimino- [α-(o-tolyloxy)-o-tolyl]acetate (Z)-Isomer]	MR8229	31			
(R-S)-Lercanidipine Hydrochloride	AP8125	31			
(S)-Lercanidipine Hydrochloride	MR8038	31			
(R)-Lercanidipine Hydrochloride	MR8039	31			
(R,S)-Lercanidipine-D ₃ Hydrochloride	MI7961	32			
(S)-Lercanidipine-D ₃ Hydrochloride	MI8040	32			
Leurosine	AP8126	32			
Losartan	NDA		Losartan Acid Metabolite (EXP3174)	MM7918	70
Losartan-D ₉	MI7917	32	Losartan-D ₉ Acid Metabolite (EXP3174-D ₉)	MI7919	70
Lumefantrine	NDA		Desbutyl-Lumefantrine-D ₉	MI8200	70
Melatonin	AP8130	32			
S-Mephenytoin	M02028	33			
Mequitazine-D ₂ Hydrochloride	MI8182	33			
Metformine-D ₆	MI8210	33			
Methotrexate	AP8131	33			
3-Methoxymorphinan Hydrochloride	MM8206	33			
Dextromethorphan	NDA		3-Methoxymorphinan-D ₃ Hydrochloride	MI8207	71
Metronidazole-D ₄	MI7922	34	Hydroxymetronidazole-D ₄	MI7924	66
Midazolam	M02022	34	1'-Hydroxymidazolam	M02040	66
			1'-Hydroxymidazolam-O-β-D-Glucuronide	M02044	67
Mifepristone (RU42848)	AP8132	34	N-Desmethylmifepristone	MM7921	57
			Didesmethylmifepristone (RU42848)	MM8043	61
			Hydroxymifepristone (RU42698)	MM8020	67
Mifepristone-D ₃	MI7920	34	N-Desmethylmifepristone-D ₃	MI8042	57
			Hydroxymifepristone-D ₃ (RU42698-D ₃)	MI8022	67
Mosapride	AP8133	34			
Naringenin	NDA		Naringenin-4'-O-β-D-Glucuronide	M02045	71
			Naringenin-7-O-β-D-Glucuronide	M02046	72
Navelbine Ditartrate	AP8134	35			
Nifedipine	AP8135	35			
Nifedipine-D ₃	MI7976	35			
Niflumic Acid	NDA		5-Hydroxyniflumic Acid	MM8031	67
Nisoldipine-D ₃	MI7977	35			
Nisoldipine-D ₄	MI8188	35			
Nomegestrol Acetate-D ₃	MI8201	36			
p-N-Nonylphenol (RING- ¹³ C ₆)	MI8228	36			
Noradrenaline-D ₆ Hydrochloride	MI8232	36	DL-3,4-Dihydroxyphenyl Glycol-D ₂ ¹³ C	MI7983	62
			MHPG Sulfate-D ₃ Potassium Salt	MI8013	73
Olanzapine	AP8136	36	Desmethylolanzapine	MM7927	57
Olanzapine-D ₃	MI7926	36			
Olmesartan Medoxomil	AP8137	37			
Omeprazole	AP8138	37	Omeprazole Sulfone	MM8018	74
			Omeprazole 5-Carboxylic Acid	MM7935	74
			5-Hydroxyomeprazole Sulfide	MM7931	68
			Omeprazole Sulfide 5-Carboxylic Acid	MM7934	73
			5-Hydroxyomeprazole	MM7932	68
			5-Hydroxyomeprazole Sulfone	MM7933	68
Omeprazole-D ₃	MI8015	37	Omeprazole-D ₃ Sulfide	MI8016	74
			Omeprazole-D ₃ Sulfone	MI8017	74
			5-Hydroxyomeprazole-D ₃	MI8213	68
Ondansetron Hydrochloride	AP8139	37			
L-Ornithine- ¹³ C Hydrochloride	MI7963	37			
L-Ornithine- ¹³ C D ₂ Hydrochloride	MI7964	38			
Oseltamivir Acid Hydrochloride	MM8202	38			
Oxybutynin Hydrochloride	NDA	38	N-Desethyloxybutynin Hydrochloride	MM7937	56
Oxybutynin-D ₁₀ Hydrochloride	MI7936	38			
Oxycodone Hydrochloride	NDA		Noroxycodone Hydrochloride (N-desmethyloxycodone)	MM8024	73
Oxycodone-D ₃ Hydrochloride	MI8023	38			
Paclitaxel	AP8183	38	6α-Hydroxypaclitaxel	M02006	68
Pantoprazole Sodium Salt	AP8140	39			

Substrates / APIs Metabolites synoptic chart

Pentoxifylline	NDA	-	Pentoxifylline Acid Metabolite (1-(4-carboxybutyl)-3,7-dimethyl-xanthine)	MM7939	74
			Pentoxifylline Alcohol Metabolite (1-(5-hydroxyhexyl)-3,7-dimethyl-xanthine)	MM7938	75
Pentoxifylline-D ₆	NDA	-	Pentoxifylline-D ₆ Acid Metabolite	MI7940	75
Phloroglucinol	NDA				
Phloroglucinol- ¹³ C ₆	MI8180	39	Phloroglucinol-1-β-O-Glucuronide	MM8227	75
Pimobendane	NDA		O-Desmethyl-Pimobendan (UD-CG 212)	MM8205	75
Pioglitazone Hydrochloride	AP8141	39			
Pirenoxine	AP8142	39			
Pravastatin Sodium Salt	AP8143	39			
Propranolol Hydrochloride	M02029	40	5-Hydroxypropranolol	M02015	69
Propranolol-D ₇	MI8072	40	5-Hydroxypropranolol-D ₇	M02042	69
Pyriproxyfen-D ₆	MI8231	40			
Quetiapine Fumarate	AP8144	40			
Quetiapine-D ₄ Hemifumarate	MI7941	40			
Ramipril	AP8145	41	Ramipril Acyl-D-Glucuronide	MM8080	75
			Ramipril Diketopiperazine (EP impurity D)	MR8071	76
			Ramiprilat	MM8070	76
Ranitidine Hydrochloride	AP8146	41			
Rebamipide	AP8147	41			
Resveratrol	AP8029	41	Resveratrol 3-O-D-Glucoside (piceid)	M02035	76
			Resveratrol 3-O-D-Glucuronide	M02036	76
			Resveratrol 4'-O-D-Glucuronide	M02037	77
			Resveratrol-3-O-Sulfate	MM8199	77
			Resveratrol-3-O-D-Glucuronide D ₄	MI8218	76
			Resveratrol-4'-O-D-Glucuronide Minimum D ₄	MI8219	77
			Resveratrol-3-O-Sulfate Minimum D ₄	MI8220	77
Rifapentine	AP8149	41			
Rilmenidine Phosphate	AP8150	42			
Rilmenidine-D ₄	MI7967	42			
Risedronate Sodium Salt	AP8148	42			
Risedronate-D ₄ ¹³ C (M+5) Sodium Salt	MI8061	42			
Risperidone	AP8151	42	9-Hydroxyrisperidone	MM7943	69
Risperidone-D ₅	MI7942	43	9-Hydroxyrisperidone-D ₄	MI7944	69
Ropinirole Hydrochloride	NDA		Despropylropinirole Hydrochloride	MM7946	60
Ropinirole-D ₇ Hydrochloride	MI7945	43			
Rosiglitazone Maleate	AP8152	43	N-desmethylosiglitazone	MM8033	58
Rosiglitazone-D ₅ Maleate	MI7947	43			
Sarafloxacin	AP8153	43			
Sertraline Hydrochloride	AP8154	44			
Sibutramine	NDA		N,N-Didesmethyisibutramine Hydrochloride	MM8225	77
			N-Monodesmethyisibutramine Hydrochloride	MM8223	58
Sibutramine-D ₆ Hydrochloride	MI8224	44	N,N-Didesmethyisibutramine-D ₇ Hydrochloride	MI8221	78
			N-Monodesmethyisibutramine-D ₇ Hydrochloride	MI8222	58
Sildenafil Citrate	AP8155	44	Desmethyilsildenafil Citrate	MM7949	58
Sildenafil-D ₈ Citrate	MI7948	44	Desmethyilsildenafil-D ₈ Citrate	MI7950	58
Sulbactam-D ₂ Sodium Salt	MI8216	44			
Sumatriptan Succinate	AP8157	45			
Tabersonine	AP8158	45			
Tadalafil	AP8159	45			
Tamoxifen Citrate	AP8160	45			
Temozolomide	AP8161	45			
Tenatoprazole	AP8162	46			
Terbinafine Hydrochloride	AP8163	46			
Terfenadine	M02023	46	Terfenadine Alcohol	MM8184	78
			Fexofenadine Hydrochloride	AP8109	62
Testosterone	M02021	46	11α-Hydroxytestosterone	M02007	69
			6β-Hydroxytestosterone	M02008	70
Tetrazepam	AP8164	46			
Tilmicosin	AP8165	47			
Tolbutamide	M02020	47	4-Hydroxytolbutamide	M02009	70
Trilostane	AP8166	47			

Substrates / APIs Metabolites synoptic chart

Trimebutine Maleate	NDA		N-Desmethyltrimebutine Hydrochloride	MM7951	59
			O-Desmethyltrimebutine Hydrochloride	MM7952	59
			N-Desmethyl-O-Desmethyltrimebutine	MM7953	59
Trimebutine-D ₃ Maleate	MI7957	47	N-Desmethyltrimebutine-D ₃ Hydrochloride	MI7958	59
1,3,5-Trimethoxybenzene- ¹³ C ₆	MI8181	48			
Tropisetron Hydrochloride	AP8167	48			
Tulobuterol Hydrochloride	AP8168	48			
Valsartan	AP8169	48			
Valsartan-D ₉	MI7954	48			
Vardenafil	AP8171	49			
Verapamil Hydrochloride	AP8170	49			
Vinblastine Sulfate	AP8172	49			
Vincristine Sulfate	AP8173	49			
Vindoline	AP8174	49			
Ziprasidone	AP8175	50			
Ziprasidone-D ₈	MI7955	50			
Zolmitriptan	AP8176	50	N-Desmethylzolmitriptan Hydrochloride	MM8058	59
Zolmitriptan-D ₆	MI8057	50	N-Desmethylzolmitriptan-D ₃ Hydrochloride	MI8059	60
Zolpidem	AP8177	50			
Zolpidem-D ₆	MI7968	51			
Zopiclone	AP8178	51			

NDA: no data available

* Contact us for further information

Chemical substrates & their metabolites for *in vitro* experiments

CYP	Chemical substrates	Metabolites
1A1	7-Ethoxyresorufin	Resorufin
1A2	Phenacetin ¹ 7-Ethoxyresorufin ² Caffeine ² Theophylline ² Tacrine ² Clozapine Olanzapine Propranolol Ropinirole	O-desethyl phenacetin (acetaminophen) Resorufin Paraxanthine (3-N-desmethylcaffeine) N-Desmethyltheophylline 1-Hydroxy tacrine N-Desmethylclozapine N-Desmethylolanzapine N-Deisopropyl Propranolol N-Despropyl Ropinirole
1B1	7-Ethoxyresorufin Estradiol	Resorufin 4-Hydroxy Estradiol
2A6	Coumarin ¹ Nicotine ¹ 7-Ethoxycoumarin	7-Hydroxycoumarin Cotinine (5'-cetonitine) 7-Hydroxycoumarin
2B6	Bupropion ¹ Efavirenz ¹ Propofol ² S-Mephenytoin ²	R,R- and S,S-Hydroxybupropion Hydroxy Efavirenz Hydroxy Propofol Nirvanol (N-desmethyl S-Mephenytoin)
2C8	Paclitaxel ¹ Rosiglitazone ² Amodiaquine ² Amiodarone	6 α -Hydroxy Paclitaxel Para Hydroxy Rosiglitazone N-Desethylamodiaquine N-Desethyl Amiodarone (MDEA)
2C9	Diclofenac ¹ S-warfarin ¹ Tolbutamide ¹ Flurbiprofen ² Phenytoin ² S-Mephenytoin ² Irbesartan Losartan	4'-Hydroxy Diclofenac 7-Hydroxy S-Warfarin 4-Hydroxytolbutamide 4'-Hydroxyflurbiprofen 4'-Hydroxyphenytoin Nirvanol (N-desmethyl S-mephenytoin) Monohydroxylated Irbesartan Derivatives EXP3174 (5-carboxy iosartan)
2C18	Homo-Tienilic Alcohol (3-[2,3-dichloro-4-(thiophene-2-carbonyl)phenoxy]hydroxypropyl ether)	5-Hydroxy Homotienilic Alcohol

(1) Preferred substrate (from FDA guidance 2006)

(2) Acceptable substrate (from FDA guidance 2006)

Chemical substrates & their metabolites for *in vitro* experiments

CYP	Chemical substrates	Metabolites
2C19	S-Mephenytoin ¹ Fluoxetine ² Omeprazole ² Diazepam Imipramine	4'-Hydroxy S-Mephenytoin O-Dealkyl Fluoxetine 3-Hydroxy Omeprazole Nordiazepam N-Desmethyl Imipramine
2D6	Bufuralol ¹ Dextromethorphan ¹ Debrisoquine ² Desipramine Imipramine Propranolol Risperidone	1'-Hydroxy Bufuralol Dextrorphan (O-desmethyl dextromethorphan) 4- and 7-Hydroxy Debrisoquine 2-Hydroxy Desipramine 2-Hydroxy Imipramine 4- and 5-Hydroxy Propranolol 9-Hydroxy Risperidone
2E1	Chlorzoxazone ¹ 7-Ethoxycoumarin p-Nitrophenol	6-Hydroxy Chlorzoxazone 7-Hydroxycoumarin p-Nitrocatechol
3A4/5	Midazolam ¹ Testosterone ¹ Dextromethorphan ² Erythromycin ² Nifedipine ² Terfenadine ² Triazolam ² Alprazolam Amiodarone Diazepam Diclofenac Dihydroquinidine Dihydroquinine Quinine Quinidine Sildenafil	1'- and 4'-Hydroxy Midazolam 6 β -Hydroxytestosterone Dextrorphan N-Desmethyl Dextromethorphan N-Desmethyl Erythromycin Dehydronifedipine Terfenadine Alcohol 4-Hydroxy Triazolam 4-Hydroxy Alprazolam N-Desethyl Amiodarone (MDEA) Nordiazepam (N-desmethyl diazepam) 5-Hydroxy and 4',5-Dihydroxydiclofenac 3S-Hydroxy Dihydroquinidine 3S-Hydroxy Dihydroquinine 3S-Hydroxy Quinine 3S-Hydroxy Quinidine N-Desmethyilsildenafil

(1) Preferred substrate (from FDA guidance 2006)

(2) Acceptable substrate (from FDA guidance 2006)

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www.izinta.hu

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Email: rico.rossi@alice.it
www.bertinpharma.com

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Phone: +81 (3) 5684 1620
Email: reagent@funakoshi.co.jp
www.funakoshi.co.jp

Korea - Woongbee MeDiTech, Inc.

Phone: +82 (0)31 776 3300
Email: woongbee@woongbee.com
www.woongbee.com

Nordic countries (Denmark)

AH diagnostics
Phone: +45 8745 9010
Email: ahdiagnostics@ahdiagnostics.dk
www.ahdiagnostics.dk

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www.caymanchem.com

**Parc d'Activités du Pas du Lac
10 bis avenue Ampère
F-78180 Montigny-le Bretonneux
Tel.: +33 (0) 139 306 036
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