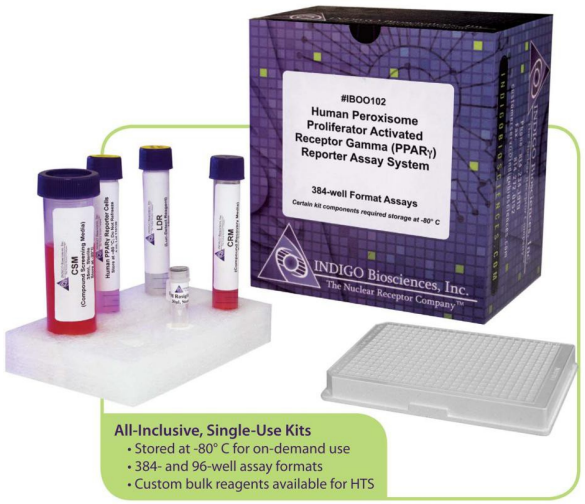
Nuclear Receptor cell assays

INDIGO Biosciences, Inc.
The Nuclear Receptor Company™

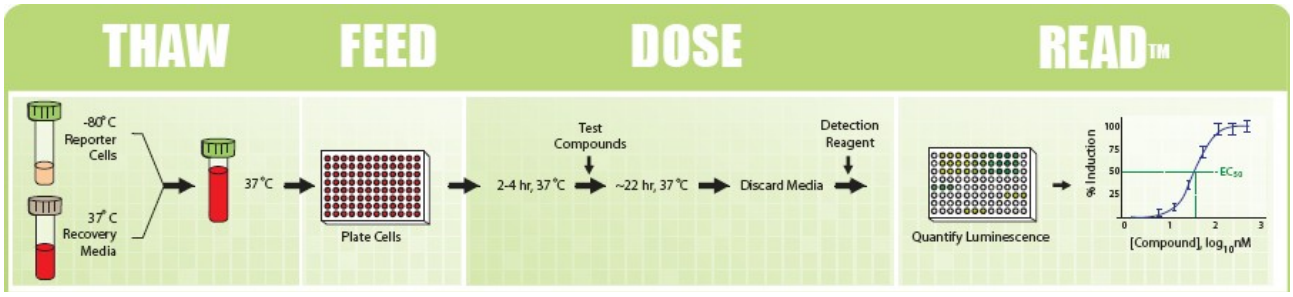
Des tests cellulaires robustes et rapides pour les récepteurs nucléaires

Les récepteurs nucléaires sont des maillons de nombreuses voies d'activation cellulaire. Le pPARγ par exemple est largement impliqué dans le traitement du diabète, l'inflammation, le cancer... mais aussi pour des effets cardiovasculaires néfastes. Les tests pPARγ sont ainsi devenus importants en recherche pharma, comme screening de la cible pPAR (ON-target) ou d'activités in-désirées (toxicité; OFF-target). L'approche immunométrique est souvent utilisée, à défaut de test cellulaire adéquat –jugés trop délicats et long à mettre en œuvre-.



Le nouveau test d'Indigo est unique:

- **Prêt quand vous l'êtes!**
  Décongelez les cellules qui sont stables et prêtes à l'emploi et utilisez les / résultat en 24H !
- **Robuste**: *score Z' excellent*
  > 95% de viabilité cellulaire
- **Rapide et sensible**
  système reporter luciferase *à émission stable*



Reporter Assays format	3x 32 assays 96-well	96 assays 96-well	960 Assays Bulk(a) 96-well	384 assays 384-well	3840 Assays Bulk(b) 384-well	
Human **PPAR α/δ/γ pannel** (c)	FI6930					
Human PPAR**α** (NR1C1)	FI6900	FI6901	FI6902	FI690A	FI690B	
Human PPAR**δ** (NR1C2)	FI6910	FI6911	FI6912	FI691A	FI691B	
Human PPAR**γ** (NR1C3)	FI6920	FI6921	FI6922	FI692A	FI692B	

(a) Bulk Rgt pack for 10x96-wells plates
(b) Bulk Rgt. Pack for 10x 384-well plates
(c) pannel 32 tests each
(d) pannel 48 tests each

Prix en ligne
Fiche techniques & Protocol Rapide

8 autres facteurs nucléaires sont disponibles !

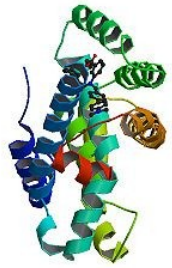
CAR (NR1I3)	**ER-Panel**	**ERβ (NR3A2)**	**ERα (ESR1)**	**FXR (NR1H4)**
GR (NR3C1)	**LXR-Panel**	**LXRα (NR1H3)**	**LXRβ (NR1H2)**	**MR (NR3C2)**
RXRα (NR2B1)	**TRα (NR1A1)**			

The **PPAR** Assay utilizes non-human mammalian cells engineered to express the human **Human Peroxisome Proliferator Activated Receptor** proteins, commonly referred as **PPARα** (**NR1C1**), **PPARγ** (**NR1C2**), and **PPARδ** (**NR1C3**).

PPAR pathways (Klegg)

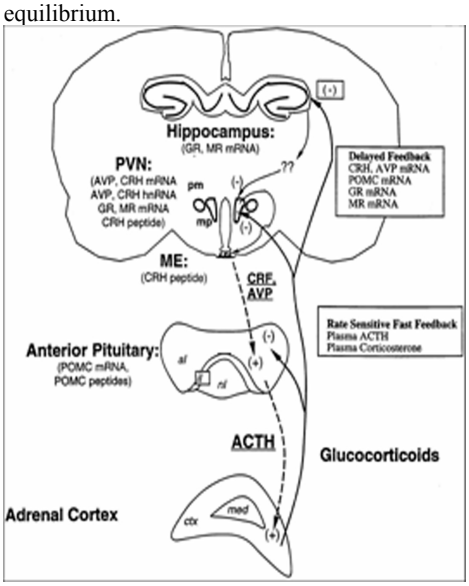
Upstream activation	PPAR	DNA target	Downstream activated ligands	function
Liver Skeletal muscle (Unsaturated fatty acid, saturated fatty acid, eiconasoid, fibrate drug, NSAID)	PPARα *	gene	HMGS2 Apo –AII	Ketogenesis Lipid transport
			ME1/SCD-1 CYP7A1&8B1	Lipogenesis Cholesterol metabolism
Skeletal muscle Adipocyte (unsaturated fatty acid)	PPARβ/γ *	gene	FABP3/1, ACBP, LPL,ACS... ThiolaseB/CYP4A1/SCP-X PGAR/aP2/CAP UCP-1	Fatty acid tranport Fatty acid oxidation Addiipocyte differentiat Adaptative thermogenes
	*		ILK UBC	Cell survival Ubiquitination
Adipocyte (Unsaturated fatty acid, eiconasoid, Thiazolidine derivative, NSAID)	PPARγ *	gene	PEPCK GyK	Gluconeogenesis

*plus 9-cic-retinoid acid activation of RXR

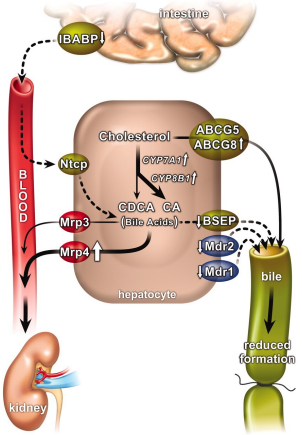


The **Farnesoid X Receptor** Reporter Assay System utilize non-human mammalian cells engineered to express human **NR1H4** protein, commonly referred to as **FXR**. FXR receptor is expressed in high levels in the liver and intestine, binds to bile acidsand combine to RXR, to supress cholesterol 7 alpha-hydroxylase (CYP7A1) in rate.

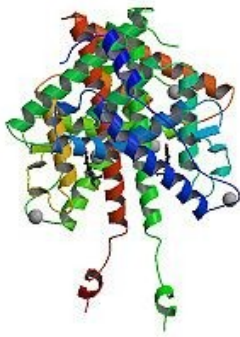
The **Mineralocorticoid Receptor Assay System** Reporter Assay System utilize non-human mammalian cells engineered to express human **NR3C2** protein, commonly referred to as **MR**. This steroid related receptor regulates the hydro-sodic equilibrium.



The **LXR** Assay System utilizes non-human mammalian cells engineered to express the **Human Peroxisome Proliferator Activated Receptor** proteins, commonly referred as LXRα(**NR1H3**) and LXRβ (**NR1H2**). LXRα and LXRβ nuclear receptors are involved in regulating the metabolism of cholesterol and lipids (evidenced role in atherosclerosis), as well as inflammatory response (macrophages).



The **Human Estrogen Receptor 1** Assay System contains reporter cells engineered to express human **NR3A1** protein, commonly referred to as **ESR1**, or **ERa**/ERα. ERa is activated by the sex hormone estrogen.



Information inquire

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_____

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