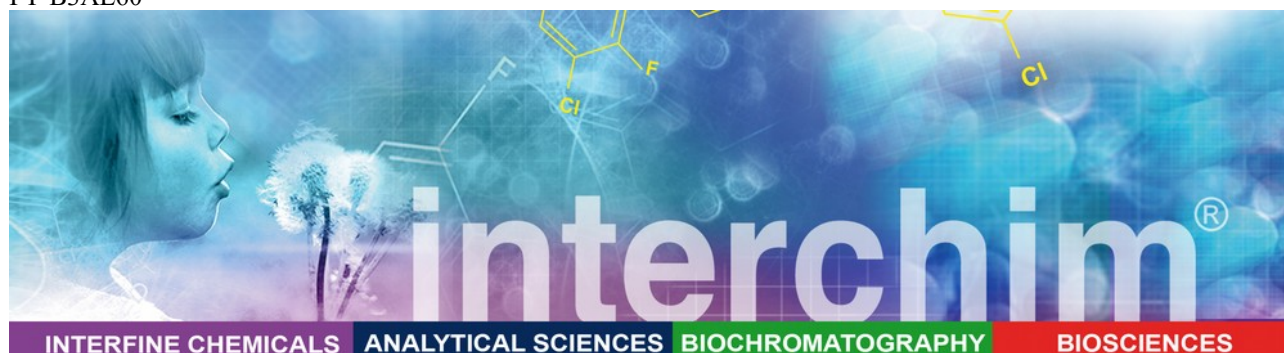


FT-B3AL60



Active Recombinant Human Caspase-3

Product Description

Catalog #:	B3AL60, 5 µg B3AL61, 10 µg
Name:	Active Recombinant Human Caspase-3
Unit Definition:	One unit of the recombinant caspase-3 is the enzyme activity that cleaves 1 nmol of the caspase substrate DEVD-pNA (pNA: p nitroaniline) per hour at 37 ° C in a reaction solution containing 50 mM Hepes, pH 7.2, 50 mM NaCl, 0.1% Chaps, 10 mM EDTA, 5% Glycerol, and 10 mM DTT.
Source :	<i>E. coli</i>
Physical Appearance :	Freeze-dried powder with additives
Reconstitution :	Reconstitute to 1 unit per µl in water.
Specific Activity :	≥ 15,000 units/mg
Storage:	The lyophilized caspase-3 is stable for 1 year at -70 ° C. Following reconstitution in water, the enzyme should be aliquoted and immediately stored at -70 ° C. Avoid multiple freeze/thaw cycles as activity might decrease.

For Research Use Only

Introduction

Caspase-3 (also known as CPP32, Yama and apopain) is a major member of the caspase- family of cysteine proteases. Caspase-3 exists in cells as an inactive 32 kDa proenzyme. During apoptosis procaspase-3 is processed at aspartate residues by self-proteolysis and/or cleavage by upstream caspases, such as caspase-6 (Mch2), caspase-8 (Flice) and granzyme B. The processed form of caspase-3 consists of large (17 kD) and small (11 kD) subunits which associate to form the active enzyme. The active caspase-3 has been shown involving in the proteolysis of several important molecules, such as poly (ADP-ribose) polymerase (PARP), the sterol regulatory element binding proteins (SREBPs), focal adhesion kinase (FAK), and others. The recombinant active human caspase-3 expressed in *E. coli* spontaneously undergoes auto processing to yield subunits characteristic of the native enzyme (Full length gene Accession No. NP_004337). The active caspase-3 preferentially cleaves caspase-3 substrates (e.g., DEVD-AFC or DEVD-pNA) and is routinely tested for its ability to enzymatically cleave these two substrates Ac-DEVD-pNA (Cat. No. FP-BI0930) or Ac-DEVD-AFC (Cat. No. FP-R11477A).

Directions for use

Solubility

Active caspase-3 is useful in studying enzyme regulation, determining target substrates, screening caspase inhibitors, or as a positive control in caspase activity assays. We recommend using 1 unit/assay for analyzing caspase activity. For a complete caspase-3 assay protocol, please refer to Caspase-3/ CPP32 Fluorometric or Colorimetric Assay Kits (Cat No: GDA200 or AXEX10).

Ordering information

Catalog size quantities and prices may be found at <http://www.interchim.com>.
Please inquire for higher quantities (availability, shipment conditions).

Please contact InterBioTech – Interchim for any other information
Hotline : +33(0)4 70 03 73 06 – Interbiotech@interchim.com

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