

Datasheet for ABIN7596287

Caspase 3 Protein (CASP3) (AA 29-277) (His tag)



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Overview

Quantity:	50 µg
Target:	Caspase 3 (CASP3)
Protein Characteristics:	AA 29-277
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Caspase 3 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Enzyme Activity Assay (EAA)

Product Details

Sequence:	MSGISLDNSY KMDYPEMGLC IIINNKNFHK STGMTSRSGT DVDAANLRET FRNLKYEVRN KNDLTREEIV ELMRDVSKED HSKRSSFVCV LLSHGEEGII FGTNGPVDLK KITNFFRGDR CRSLTGKPKL FIIQACRGTE LDCGIETDSG VDDDMACHKI PVEADFLYAY STAPGYYSWR NSKDGSWFIQ SLCAMLKQYA DKLEFMHILT RVNRKVATEF ESFSFDATFH AKKQIPCIVS MLTKELYFYH
Purity:	> 90% by SDS-PAGE
Endotoxin Level:	< 1 EU per 1ug of protein (determined by LAL method)
Biological Activity Comment:	Specific activity is > 5,000pmol/min/ug. One unit will liberate 1pmole of Ac-DEVD-AFC to Ac-DEVD and AFC per minute at pH7.5 at 25C.

Target Details

Target:	Caspase 3 (CASP3)
Alternative Name:	Caspase-3 (CASP3 Products)
Background:	Caspase-3, also known as caspase-3 isoform a, is a member of the cysteine-aspartic acid protease (caspase) family of enzymes. This protein is most abundant in cell lines of lymphocytic origin. Also, it activates caspases 6 and 7 and the protein itself is processed and is activated by caspases 8, 9, and 10. Caspases exist as inactive proenzymes that undergo proteolytic processing at conserved aspartic residues to produce two subunits that dimerize to form the active enzyme. Members of the caspase family of proteases play central roles in coordinating the stereotypical events that occur during apoptosis. Recombinant Human Caspase-3, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Molecular Weight:	29.4 kDa (256aa)ns
NCBI Accession:	NP_116786
Pathways:	Apoptosis , Caspase Cascade in Apoptosis , Sensory Perception of Sound , ER-Nucleus Signaling , Positive Regulation of Endopeptidase Activity , Activated T Cell Proliferation

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.