

Caspase-3 Active Protein | CASP3 active protein

Recombinant Caspase-3

CATALOG # AAA48316	HOST Baculovirus	APPLICATIONS SDS-Page
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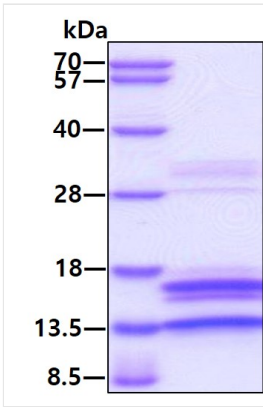
PRODUCT SYNONYMS

Caspase-3; Recombinant Caspase-3; CPP32; CPP32B; SCA-1; CASP-3; Apopain; Cysteine protease CPP32; CPP-32; Protein Yama; SREBP cleavage activity 1; CASP3 active protein

PRODUCT SPECIFICATIONS

Host	Baculovirus
Purity/Purification	>90% by SDS-PAGE
Form/Format	Liquid; In 20mM HEPES Buffer (pH 7.5) Containing 0.1M NaCl, 1mM EDTA, 1mM DTT, 20% Glycerol.
Concentration	0.5mg/ml (determined by Absorbance at 280nm) (varies by lot)
Sequence Positions	29-277aa
Sequence	MSGISLDNSY KMDYPEMGLC IIINNKNFHK STGMTSRSGT DVDAANLRET FRNLKYEVRN KNDLTREEIV ELMRDVSKEH HSKRSSFVCV LLSHGEEGII FGTPNPVDLK KITNFFRGDR CRSLTGKPKL FIIQACRGTE LDCGIETDSG VDDDMACHKI PVEADFLYAY STAPGYYSWR NSKDGSWFIQ SLCAMLKQYA DKLEFMHILT RVNRKVATEF ESFSFDATFH AKKQIPCIVS MLTKELYFYH HHHHHH
Sequence Length	277
Applicable Applications for CASP3 active protein	Enzyme Activity, SDS-PAGE
Endotoxin	<1 EU per 1ug of protein (determined by LAL method)
Tag	His-Tag
Predicted N-Terminal	Ser 29
Biological Activity	Specific activity is > 5,000 pmol/min/ug. One unit will liberate 1 pmoles of Ac-DEVD-AFC to Ac-DEVD and AFC per minute at pH7.5 at 25C.
Preparation and Storage	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.

IMAGES



SDS-PAGE
3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

ADDITIONAL INFORMATION

Related Product Information for CASP3 active protein	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.
Product Categories/Family for CASP3 active protein	Neuroscience
References	Walsh JG., et al, (2008) Proc. Natl. Scad. Sci. USA 105:12815. Fernandes-Alnemri T., et al, (1994) J. Biol. Chem. 269:30761-30764.

NCBI AND UNIPROT INFORMATION

NCBI GI #	14790119
NCBI GeneID	836
NCBI Accession #	NP_004337.2
NCBI GenBank Nucleotide #	NP_004337.2
UniProt Accession #	P42574
Molecular Weight	29.4kDa (256aa)
NCBI Official Full Name	caspase-3 isoform a preproprotein
NCBI Official Synonym Full Names	caspase 3
NCBI Official Symbol	CASP3
NCBI Official Synonym Symbols	CPP32; SCA-1; CPP32B
NCBI Protein Information	caspase-3
UniProt Protein Name	Caspase-3
UniProt Gene Name	CASP3
UniProt Synonym Gene Names	CPP32; CASP-3; CPP-32; SCA-1
UniProt Entry Name	CASP3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/baculovirus-casp3-active-protein/caspase-3/48316>