

Active Recombinant Full Length Human CASP3 Protein, His tagged

Cat. No. CASP3-13HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Full Length Human CASP3 Protein with His tag was expressed in Insect Cells.
Species	Human
Source	Insect Cells
ProteinLength	29-277 aa
Description	The protein encoded by this gene is a cysteine-aspartic acid protease that plays a central role in the execution-phase of cell apoptosis. The encoded protein cleaves and inactivates poly(ADP-ribose) polymerase while it cleaves and activates sterol regulatory element binding proteins as well as caspases 6, 7, and 9. This protein itself is processed by caspases 8, 9, and 10. It is the predominant caspase involved in the cleavage of amyloid-beta 4A precursor protein, which is associated with neuronal death in Alzheimer's disease.
Molecular Mass	29 kDa
Bio-activity	Specific activity is ~27253 pmol/min/μg. One unit will liberate 1pmole of Ac-DEVD-AFC to Ac-DEVD and AFC per minute at pH 7.5 at 25 centigrade.
AASequence	MSGISLDNSYKMDYPEMGLCIINNKNFHKSTGMTSRSGTDVDAANLRETFRNLYE VRNKNDLRTREEIVELMRDVSKEDHSKRSSFVVCVLLSHGEEGIIFGTNGPVDLKKITNF

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FRGDRCSRSLTGKPKLFIIQACRGTELDGCIETDSGVDDDMACHKIPVEADFLYAYSTA
PGYYSWRNSKDGSWFIQSLCAMLKQYADKLEFMHILTRVNRKVATEFESFSFDATE
HAKKQIPCIVSMLTKELYFYHHHHHHH

Endotoxin < 1 EU/μg by LAL

Purity > 90% by SDS-PAGE

Storage Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Storage Buffer Sterile 20mM Hepes, 100mM NaCl, 1mM EDTA, 1mM DTT, 20% Glycerol

Concentration 2.67 mg/mL (determined by absorbance at 280nm)

GENE INFORMATION

Gene Name CASP3 caspase 3 [Homo sapiens (human)]

Official Symbol CASP3

Synonyms CASP3; caspase 3, apoptosis-related cysteine peptidase; caspase 3, apoptosis related cysteine protease; caspase-3; apopain; CPP32; CPP32B; Yama; CASP-3; CPP-32; procaspase3; protein Yama; PARP cleavage protease; cysteine protease CPP32; SREBP cleavage activity 1; caspase 3, apoptosis-related cysteine protease; SCA-1;

Gene ID 836

mRNA Refseq NM_004346

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Protein Refseq	NP_004337
MIM	600636
UniProt ID	P42574

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