

# Active Recombinant Full Length Human CASP3 Protein, His tagged

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

## SPECIFICATION

<b>Product Overview</b>	Active Recombinant Full Length Human CASP3 Protein with His tag was expressed in Insect Cells.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>ProteinLength</b>	29-277 aa
<b>Description</b>	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.
<b>Molecular Mass</b>	29 kDa
<b>Bio-activity</b>	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.
<b>AASequence</b>	MSGISLDNSYKMDYPEMGLCIINNKNFHKSTGMTSRSGTDVDAANLRETFRNLYE VRNKNDLRTREEIVELMRDVSKEHDHRSKSSFVVCVLLSHGEEGIIFGTNGPVDLKKITNF

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

FRGDRCSRSLTGKPKLFIIQACRGTELDGCIETDSGVDDDMACHKIPVEADFLYAYSTA  
 PGYYSWRNSKDGSWFIQSLCAMLKQYADKLEFMHILTRVNRKVATEFESFSFDATF  
 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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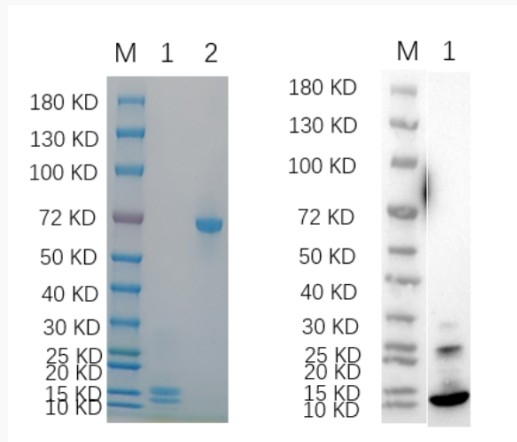
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**Protein Refseq** NP\_004337

**MIM** 600636

**UniProt ID** P42574

**SDS-PAGE and WB**



Reducing 4%-20% SDS-PAGE (CBB stained) and WB (Anti-His Mouse Monoclonal Antibody) analysis profiles of purified CASP3. 1. CASP3: 1 ug 2. BSA: 1 ug

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