

Recombinant Human CASP3 protein, His & T7-tagged

Cat. No. CASP3-622H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CASP3 aa. (Ser29~Asp175 (Accession # P42574)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Ser29~Asp175
Description	This gene encodes a protein which is a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. This protein cleaves and activates caspases 6, 7 and 9, and the 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. Alternative splicing of this gene results in two transcript variants that encode the same protein.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 20.4kDa
Endotoxin	<1.0EU per 1g (determined by the LAL method)

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Purity	>95%
Characteristic	The isoelectric point is 7.7.
Applications	SDS-PAGE; WB; ELISA; IP
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% sucrose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	CASP3 caspase 3 [Homo sapiens (human)]
Official Symbol	CASP3
Synonyms	CASP3; caspase 3; CPP32; SCA-1; CPP32B; caspase-3; CASP-3; CPP-32; PARP cleavage protease; SREBP cleavage activity 1; apopain; caspase 3, apoptosis-related cysteine peptidase; caspase 3, apoptosis-related cysteine protease; cysteine protease CPP32; procaspase3; protein Yama
Gene ID	836

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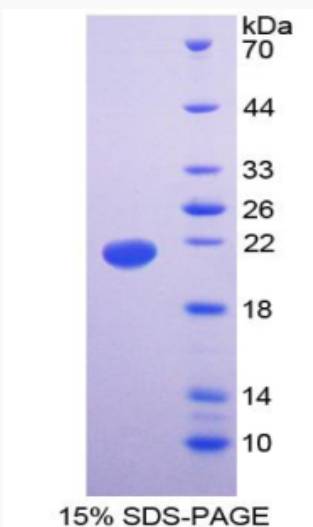
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mRNA Refseq NM_004346.3

Protein Refseq NP_004337.2

UniProt ID P42574

SDS-PAGE



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