

Recombinant Full Length Human CASP3 Protein, GST-tagged

Cat. No. CASP3-2927HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CASP3 full-length ORF (AAH16926.1, 1 a.a. - 277 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	277 amino acids
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. [provided by RefSeq, Jul 2008]
Molecular Mass	58 kDa
AA Sequence	MENTENSVDKSIKNLEPKIIHGSESMDSGISLDNSYKMDYPEMGLCIIINNKNFHKST GMTSRSGTDVDAANLRETFRNLYEVRNKNLDLTREEIVELMRDVSKEDHSKRSSFV CVLLSHGEEGIIFGTNGPVDLKKITNFFRGDRCSLTGKPKLFIIQACRGTELDGCIET

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DSGVDDDMACHKIPVEADFLYAYSTAPGYYSWRNSKDGSWFIQSLCAMLKQYADK
LEFMHILTRVNRKVATEFESFSFDATEFHAKKQIPCIVSMLTKELYFYH

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

[CASP3 caspase 3, apoptosis-related cysteine peptidase \[Homo sapiens \]](#)

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](#)

Protein Refseq

[NP_004337](#)

MIM

[600636](#)

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UniProt ID

P42574

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