Recombinant Full Length Human CASP3 Protein, C-Flag-tagged

Cat. No. CASP3-946HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CASP3 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	31.4 kDa
AA Sequence	MENTENSVDSKSIKNLEPKIIHGSESMDSGISLDNSYKMDYPEMGLCIIINNKNFHKST GMTSRSGTDVD AANLRETFRNLKYEVRNKNDLTREEIVELMRDVSKEDHSKRSSFV CVLLSHGEEGIIFGTNGPVDLKKIT NFFRGDRCRSLTGKPKLFIIQACRGTELDCGIET DSGVDDDMACHKIPVEADFLYAYSTAPGYYSWRNSK DGSWFIQSLCAMLKQYADK LEFMHILTRVNRKVATEFESFSFDATFHAKKQIPCIVSMLTKELYFYHTRTRPLEQKLI

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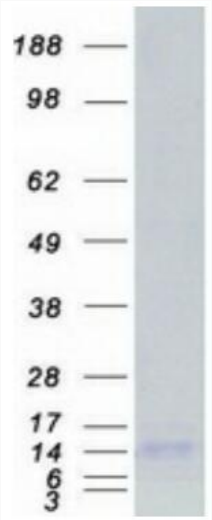
	SEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, ES Cell Differentiation/IPS, Protease
Protein Pathways	Alzheimer's disease, Amyotrophic lateral sclerosis (ALS), Apoptosis, Colorectal cancer, Epithelial cell signaling in Helicobacter pylori infection, Huntington's disease, MAPK signaling pathway, Natural killer cell mediated cytotoxicity, p53 signaling pathway, Parkinson's disease, Pathways in cancer, Viral myocarditis
Full Length	Full L.

GENE INFORMATION

Gene Name	CASP3 caspase 3 [Homo sapiens (human)]
Official Symbol	CASP3
Synonyms	CPP32; SCA-1; CPP32B

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Gene ID	836
mRNA Refseq	NM_032991.3
Protein Refseq	NP_116786.1
MIM	600636
UniProt ID	P42574



Coomassie blue staining of purified CASP3 protein.

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