

## Product datasheet for **TP304444L**

### Caspase 3 (CASP3) (NM\_032991) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human caspase 3, apoptosis-related cysteine peptidase (CASP3), transcript variant beta, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC204444 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MENTENSVDSKSIKNLEPKIIHGSESMDSGISLDNSYKMDYPEMGLCIIINNKNFHKSTGMTSRSGTDVD  
AANLRETRNLKYEVNRNKNDLTREEIVELMRDVSKEDHSKRSSFVCLLSHGEEGIIIFGTNGPVDLKKIT  
NFFRGDRCSRSLTGKPKLFIIQACRGTELDGCIETDSGVDDDMACHKIPVEADFLYAYSTAPGYYSWRNSK  
DGSWFIQSLCAMLKQYADKLEFMHILTRVNRKVATEFESFSFDATFHAKKQIPICIVSMLTKELYFYH

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	31.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_116786</a>
Locus ID:	836



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UniProt ID: [P42574](#)

RefSeq Size: 2522

Cytogenetics: 4q35.1

RefSeq ORF: 831

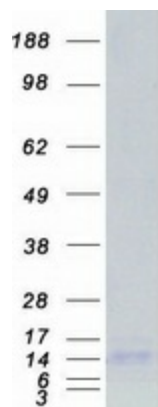
Synonyms: CPP32; CPP32B; SCA-1

**Summary:** 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. [provided by RefSeq, Aug 2017]

**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

### Product images:



Coomassie blue staining of purified CASP3 protein (Cat# [TP304444]). The protein was produced from HEK293T cells transfected with CASP3 cDNA clone (Cat# [RC204444]) using MegaTran 2.0 (Cat# [TT210002]).