

## Product datasheet for PH304444

### Caspase 3 (CASP3) (NM\_032991) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	CASP3 MS Standard C13 and N15-labeled recombinant protein (NP_116786)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC204444
Predicted MW:	31.6 kDa
Protein Sequence:	>RC204444 protein sequence Red=Cloning site Green=Tags(s)  MENTENSVDSKSIKNLEPKIIHGSESMDSGISLDNSYKMDYPEMGLCIIINNKNFHKSTGMTSRSGTDVD AANLRETFRNLYEVRNKNDLTREEIIVELMRDVSKEDHSKRSSFVCLLSHGEEGIIFGTNGPVDLKKIT NFFRGDRCSRSLTGKPKLFI IQACRGTELDCGIETDSGVDDMACHKIPVEADFLYAYSTAPGYYSWRNSK DGSWFIQSLCAMLKQYADKLEFMHILTRVNRKVATEFESFSFDATFHAKKQIPCIVSMLTKELYFYH  TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_116786</a>
RefSeq Size:	2522
RefSeq ORF:	831
Synonyms:	CPP32; CPP32B; SCA-1
Locus ID:	836
UniProt ID:	<a href="#">P42574</a>



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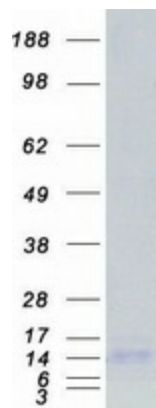
**Cytogenetics:** 4q35.1

**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]).