

## Product datasheet for PH321589

### Caspase-7 (CASP7) (NM\_033338) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	CASP7 MS Standard C13 and N15-labeled recombinant protein (NP_203124)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC221589
Predicted MW:	37.6 kDa
Protein Sequence:	>RC221589 representing NM_033338 Red=Cloning site Green=Tags(s)  MDCVGVPPGRKWHLEKNTSCGGSSGICASYVTQMADDQGCIEEQGVEDSANEDSVDAKPDSSSFVPSLFS KKKKNVTMRSIKTTRDRVPTYQYNMNFELGKCIINNKNFDKVTGMGVRNGTDKDAEALFKCFRSLGFD VIVYNDSCAKMQDLLKKASEEDHTNAACFACILLSHGEENVIIYKGDGVTPIKDLTAHFRGDRCKTLLEK PKLFFIQACRGTELDGGIQADSGPINDTDANPRYKIPVEADFLFAYSTVPGYYSWRSPGRGSWFVQALCS ILEEHGKDLEIMQILTRVNDRVARHFESQSDDPHFHEKKQIPCVVSM LTKELYFSQ  TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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_203124</a>
RefSeq Size:	2712
RefSeq ORF:	1008
Synonyms:	CASP-7; CMH-1; ICE-LAP3; LICE2; MCH3
Locus ID:	840



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UniProt ID: [P55210](#)

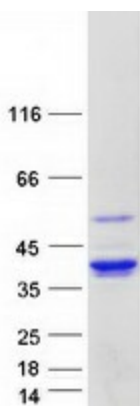
Cytogenetics: 10q25.3

**Summary:** This gene encodes 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. The precursor of the encoded protein is cleaved by caspase 3 and 10, is activated upon cell death stimuli and induces apoptosis. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, May 2012]

**Protein Families:** Druggable Genome, Protease

**Protein Pathways:** Alzheimer's disease, Apoptosis

### Product images:



Coomassie blue staining of purified CASP7 protein (Cat# [TP321589]). The protein was produced from HEK293T cells transfected with CASP7 cDNA clone (Cat# [RC221589]) using MegaTran 2.0 (Cat# [TT210002]).