

## Product datasheet for PH311776

### Calpastatin (CAST) (NM\_001750) Human Mass Spec Standard

#### Product data:

<b>Product Type:</b>	Mass Spec Standards
<b>Description:</b>	CAST MS Standard C13 and N15-labeled recombinant protein (NP_001741)
<b>Species:</b>	Human
<b>Expression Host:</b>	HEK293
<b>Expression cDNA Clone or AA Sequence:</b>	RC211776
<b>Predicted MW:</b>	84.8 kDa
<b>Protein Sequence:</b>	>RC211776 representing NM_001750 Red=Cloning site Green=Tags(s)
	MSQPGQKPAASPRRRAAAARRTHEHVSEKTSESPSKPGEKKGSDKKAASLGSSQSSRTYAGGTASATK VSASSGATSKSSMNPTEKAIPIVSQQMEGPHLPNKKKHKKQAVKTEPEKKSQSTKLSVVHEKKSQEGKP KEHTEPKSLPKQASDTGSNDAHNKKAVSRSAEQQPSEKSTEPKTKPQDMI SAGGESVAGITAISGKPGDK KKEKKS LTPAVPVESKPKPSGKSGMDAALDDL IDTLGGPEETEEENTTYTGPEVSDPMSSTYIEELGKR EVTIPPKYRELLAKKEGITGPPADSSKPIGDDAIDALSSDFTCGSPTAAGKKTEKEESTEVLKAQSSGT VRSAPPQEKRRKVEKDTMSDQALEAL SASL GTRQAEPELDLRSI KEVDEAKAKEEKLEKCGEDDETIPS EYRLK PATDKDGKPLLPEPEEKPKPRSESEL IDELSEDFDRSECKEKPSKPTKTEESKAAAPAVSEAV CRTSMCSIQSAPPEPATLKGTVDDAVEALADSLGKKEADPEDGKPVMDKVKEKAKEEDREKLGEKEETI PPDYRLEEYKDKDGKPLLPKESKEQLPPMEDFLLDALSEDFSGPQNASSLKFEDAKLAAAI SEVVSQTP ASTTQAGAPPRDTSQSDKDLDDALDKLSDSLGQRQPPDENKPMEDKVKEKAKAEHRDKLGERDDTIPPE YRHLLDDNGQDKPVKPTTKSEDSKPKADDQDPIDALSGDLSDSCPSTTETSQNTAKDKCKKAASSSKAPK NGGKAKDSAKTTEETSKPKDD
	TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
<b>Tag:</b>	C-Myc/DDK
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Labeling Method:</b>	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
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3
<b>Storage:</b>	Store at -80°C. Avoid repeated freeze-thaw cycles.
<b>Stability:</b>	Stable for 3 months from receipt of products under proper storage and handling conditions.
<b>RefSeq:</b>	<u><a href="#">NP_001741</a></u>

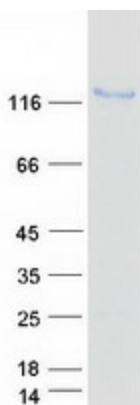


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RefSeq Size:	4629
RefSeq ORF:	2373
Synonyms:	BS-17; PLACK
Locus ID:	831
UniProt ID:	<a href="#">P20810</a>
Cytogenetics:	5q15

**Summary:** The protein encoded by this gene is an endogenous calpain (calcium-dependent cysteine protease) inhibitor. It consists of an N-terminal domain L and four repetitive calpain-inhibition domains (domains 1-4), and it is involved in the proteolysis of amyloid precursor protein. The calpain/calpastatin system is involved in numerous membrane fusion events, such as neural vesicle exocytosis and platelet and red-cell aggregation. The encoded protein is also thought to affect the expression levels of genes encoding structural or regulatory proteins. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jun 2010]

### Product images:



Coomassie blue staining of purified CAST protein (Cat# [TP311776]). The protein was produced from HEK293T cells transfected with CAST cDNA clone (Cat# [RC211776]) using MegaTran 2.0 (Cat# [TT210002]).