

## Product datasheet for PH302168

### Calpastatin (CAST) (NM\_001042444) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	CAST MS Standard C13 and N15-labeled recombinant protein (NP_001035909)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202168
Predicted MW:	71.9 kDa
Protein Sequence:	>RC202168 protein sequence Red=Cloning site Green=Tags(s)

MNPTETKAVKTEPEKKSQSTKPKSLPKQASDTGSNDAHNNKAVSRSAEQQPSEKSTEPKTKPQDMISAGG  
ESVAGITAIISGKPGDKKKEKSLTPAVPVESKPKPSGKSGMDAALDDLIDTLGGPEETEEENTTYTGPE  
VSDPMSSTYIEELGKREVTIPPKYRELLAKKEGITGPPADSSKPIGPDDAIDALSSDFTCGSPTAAGKKT  
EKEESTEVLKAQSAGTVRSAAPPQEKRRKVEKDTMSDQALEALSASLGTRQAEPELDLRSIKEVDEAKAK  
EEKLEKCGEDDETIPSEYRLKPATDKDGKPLLPPEEKPKPRSESELIDELSEDFDRSECKEKPSKPTK  
TEESKAAAPAPVSEAVCRTSMCSIQSAPPEPATLKGTPDDAVEALADSLGKKEADPEDGKPVMDKVKEK  
AKEEDREKLGEKEETIPPDYRLEEVDKDGKPLLPKESKEQLPPMSEDFLLDALSEDFSGPQNASSLKFE  
DAKLAAAISEVVSQTPASTTQAGAPPRDTSQSDKLDLDDALDKLSDSLGQRQDPDENKPMEDKVKEKAKA  
EHRDKLGERDDTIPPEYRHLLDDNGQDKPVKPTKKSSEDSSKPPADDQDPIDALSGDLDCSPSTTETSQNT  
AKDKCKKAASSSKAPKNGGKAKDSAKTTEETSKPKDD

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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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_001035909</a>
RefSeq Size:	4366

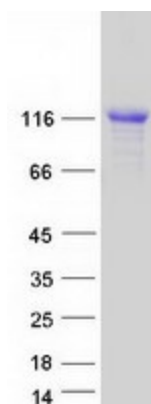


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RefSeq ORF:	2001
Synonyms:	BS-17; PLACK
Locus ID:	831
UniProt ID:	<a href="#">P20810</a>
Cytogenetics:	5q15

**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# [TP302168]). The protein was produced from HEK293T cells transfected with CAST cDNA clone (Cat# [RC202168]) using MegaTran 2.0 (Cat# [TT210002]).