

## Product datasheet for TP311776

### Calpastatin (CAST) (NM\_001750) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human calpastatin (CAST), transcript variant 1, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC211776 representing NM_001750 Red=Cloning site Green=Tags(s)

MSQPGQKPAASPRRRAAAARRTHEHVSEKTSSESPKPGKKGSDKKAASLGSSQSSRTYAGGTASATK  
VSASSGATSKSSSMNPTETKAIPVSQQMEGPHLPNKKKHKKQAVKTEPEKKSQSTKLSVHEKKSQEGKP  
KEHTEPKSLPKQASDTGSNDAHNNKAVSRSAEQQPSEKSTEPKTKPQDMISAGGESVAGITAISGKPGDK  
KKEKSLTPAVPVESKPKPSGKSGMDAALDDLIDTLGGPEETEEENTTYTGPEVSDPMSSTYIEELGKR  
EVTIPPKYRELLAKKEGITGPPADSSKPIGPDDAIDALSSDFTCGSPTAAGKKTEKEESTEVLKAQSSGT  
VRSAAPPQEKRRKVEKDTMSDQALEALSASLGRQAPELRLRSIKEVDEAKAKEEKLEKCGEDDETIPS  
EYRLKPADTKDGKPLPEPEEKPKPRSESELIDELSEDFRSECKEKPSKPTKTEESKAAAPAPVSEAV  
CRTSMCSIQSAPPEPATLKGTVPPDAVEALADSLGKKEADPEDGKPVMDKVKEKAKEEDREKLGEKEETI  
PPDYRLEEVDKDKGKPLLPKESKEQLPPMSEDFLLDALSEDFSGPQNASSLKFEKAAKAAISEVVSQTP  
ASTTQAGAPPRDTSQSDKDLDDALDKLSDSLGQRQPDNDENKPMEDKVKKAKAEHRDKLGERDDTIPPE  
YRHLLDDNGQDKPVKPPTKKSSEDSKKPADDQDPIDALSGDLSDSCPSTTETSQNTAKDKCKKAASSSKAPK  
NNGKAKDSAKTTEETSKPKDD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

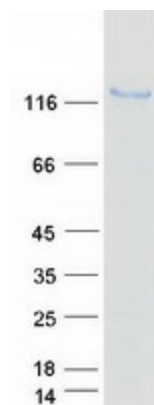
Tag:	C-Myc/DDK
Predicted MW:	84.8 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity 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.



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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_001741</a>
Locus ID:	831
UniProt ID:	<a href="#">P20810</a>
RefSeq Size:	4629
Cytogenetics:	5q15
RefSeq ORF:	2373
Synonyms:	BS-17; PLACK
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]).