

## Product datasheet for TP302168M

### Calpastatin (CAST) (NM\_001042444) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins  
**Description:** Recombinant protein of human calpastatin (CAST), transcript variant 10, 100 µg  
**Species:** Human  
**Expression Host:** HEK293T  
**Expression cDNA Clone or AA Sequence:** >RC202168 protein sequence  
Red=Cloning site Green=Tags(s)

MNPTETKAVKTEPEKKSQSTKPKSLPKQASDTGSNDAHNNKAVSRSAEQQPSEKSTEPKTKPQDMISAGG  
 ESVAGITAISGKPGDKKKKEKSLTPAVPVESKPKPSGKSGMDAALDDLIDTLGGPEETEENTTYTGPE  
 VSDPMSSTYIEELGKREVTIPPKYRELLAKKEGITGPPADSSKPIGPDDAIDALSSDFTCGSPTAAGKKT  
 EKEESTEVLKAQSAGTVRSAAPPQEKRRKVEKDTMSDQALEALSASLGTRQAEPELDRSIKEVDEAKAK  
 EEKLEKCGEDDETIPSEYRLKPATDKDGKPLLPEPEEKPKPRSESELIDELSEDFRSECKEKPSKPTK  
 TEESKAAAPAPVSEAVCRTSMCSIQSAPPEPATLKGTVPDDAVEALADSLGKKEADPEDGKPVMDKVKEK  
 AKEEDREKLGEKEETIPPDYRLEEVKDKDGKPLLPKESKEQLPPMSEDFLLDALSEDFSGPQNASSLKFE  
 DAKLAAAISEVVSQTPASTTQAGAPPRDTSQSDKLDLDDALDKLSDSLGQRQDPDENKPMEDKVKEKAKA  
 EHRDKLGERDDTIPPEYRHLLDDNGQDKPVKPPTKKSSEDSKPPADDQDPIDALSGDLSDSCPSTTETSQNT  
 AKDKCKKAASSSKAPKNGGKAKDSAKTTEETSKPKDD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

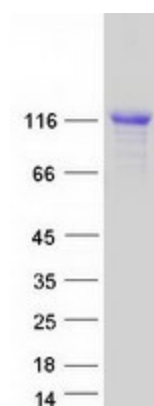
**Tag:** C-Myc/DDK  
**Predicted MW:** 71.7 kDa  
**Concentration:** >0.05 µg/µL as determined by microplate BCA method  
**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining  
**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol  
**Preparation:** Recombinant protein was 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.  
**Storage:** Store at -80°C.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_001035909</a>
<b>Locus ID:</b>	831
<b>UniProt ID:</b>	<a href="#">P20810</a>
<b>RefSeq Size:</b>	4366
<b>Cytogenetics:</b>	5q15
<b>RefSeq ORF:</b>	2001
<b>Synonyms:</b>	BS-17; PLACK
<b>Summary:</b>	<p>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]</p>

### 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]).