

Product datasheet for TP311776L

Calpastatin (CAST) (NM_001750) Human Recombinant Protein

Product data:

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

MSQPGQKPAASPRPRRAAAARRTHEHVSEKTSSESPKPGKKGSDKKAASLGSSQSSRTYAGGTASATK
 VSASSGATSKSSSMNPTETKAIPVSQQMEGPHLPNKKKHKKQAVKTEPEKKSQSTKLSVHEKKSQEGKP
 KEHTEPKSLPKQASDTGSNDAHNNKAVSRSAEQQPSEKSTEPKTKPQDMISAGGESVAGITAIKSGKPGDK
 KKEKSLTPAVPVESKPKDPKSGKSGMDAALDDLIDTLGGPEETEEENTTYTGPEVSDPMSSTYIEELGKR
 EVTIPPKYRELLAKKEGITGPPADSSKPIGPDDAIDALSSDFTCGSPTAAGKKTEKEESTEVLKAQSSGT
 VRSAAPPQEKRRKVEKDTMSDQALEALSASLGRQAPELDRSIKEVDEAKAKEEKLEKCGEDDETIPS
 EYRLKPADTKDGKPLPEPEEKPKPRSESELIDELSEDFDRSECKEKPSKPTKTEESKAAAPAPVSEAV
 CRTSMCSIQSAPPEPATLKGTVPPDAVEALADSLGKKEADPEDGKPVMDKVKEKAKEEDREKLGEKEETI
 PPDYRLEEVDKDKGKPLLPKESKEQLPPMSEDFLLDALSEDFSGPQNASSLKFEAKLAAAISEVVSQTP
 ASTTQAGAPPRDTSQSDKDLDDALDKLSDSLGQRQPDNDENKPMEDKVKKAKAEHRDKLGERDDTIPPE
 YRHLLDDNGQDKPVKPPTKKSSEDSKKPADDQDPIDALSGDLSDSCPSTTETSQNTAKDKCKKAASSSKAPK
 NGGKAKDSAKTTEETSKPKDD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

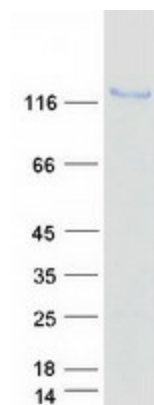
Tag: C-Myc/DDK
Predicted MW: 84.8 kDa
Concentration: >0.05 µg/µL as determined by microplate BCA method
Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation: Recombinant protein was captured through anti-DDK affinity 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:	NP_001741
Locus ID:	831
UniProt ID:	P20810
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]).