

Recombinant Full Length Human CAST Protein

Cat. No. CAST-50HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length corresponding to amino acids 1-686 of Human Calpastatin with a proprietary tag; predicted MWt 101.3kDa inclusive of tag.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	686 amino acids
Description	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.
Form	Liquid
Molecular Mass	101.530kDa inclusive of tags
AA Sequence	MNPTETKAVK TEPEKKSQST KLSVVHEKKS QEGKPKEHTE PKSLPKQASD TGSNDAHNNK AVSRSAEQQP SEKSTEPKTK PQDMISAGGE SVAGITAISG KPGDKKKEKK SLTPAVPVES KPDKPSGKSG MDAALDDLID TLGGPEETEE

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ENTTYTGPEV SDPMSSTYIE ELGKREVTIP PKYRELLAKK EGITGPPADS
 SKPIGPDDAI DALSSDFTCG SPTAAGKKTE KEESTEV LKA QSAGTVRSAA
 PPQEKKRKVE KDTMSDQALE ALSASLGTRQ AEPDLRSI KEVDEAKAKE
 EKLEKCGEDD ETIPSEYRLK PATDKDGKPL LPEPEEKPKP RSESELIDEL
 SEDFDRSECK EKPSKPTTEKT EESKAAAPAP VSEAVCRTSM CSIQSAPPEP
 ATLKGTVPDD AVEALADSLG KKEADPEDGK PVMDKVKEKA KEEDREKLGE
 KEETIPPDYR LEEVKDKDGK PLLPKESKEQ LPPMSEDFLL DALSEDFSGP
 QNASSLK FED AKLAAAISEV VSQTPASTTQ AGAPPRDTSQ SDKDLDDALD
 KLSDSLGQRQ PDPDENKPME DKVKEKAKAE HRDKLGERDD TIPPEYRHLL
 DDNGQDKPVK PPTKKSEDSK KPADDQDPID ALSGDLDCP STTETSQNTA
 KDKCKKAASS SKAPKNGGKA KDSAKTTEET SKPKDD

Purity Proprietary Purification

Storage Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.

Storage Buffer pH: 8.00. Constituents: 0.3% Glutathione, 0.79% Tris HCl.

GENE INFORMATION

Gene Name [CAST calpastatin \[Homo sapiens \]](#)

Official Symbol [CAST](#)

Synonyms CAST; calpastatin

Gene ID [831](#)

mRNA Refseq [NM_001042440](#)

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Protein Refseq	NP_001035905
MIM	114090
UniProt ID	P20810

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