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; predicited 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 TGSNDAHNKK AVSRSAEQQP SEKSTEPKTK PQDMISAGGE SVAGITAISG KPGDKKKEKK SLTPAVPVES KPDKPSGKSG MDAALDDLID TLGGPEETEE

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	ENTTYTGPEV SDPMSSTYIE ELGKREVTIP PKYRELLAKK EGITGPPADS SKPIGPDDAI DALSSDFTCG SPTAAGKKTE KEESTEVLKA QSAGTVRSAA PPQEKKRKVE KDTMSDQALE ALSASLGTRQ AEPELDLRSI KEVDEAKAKE EKLEKCGEDD ETIPSEYRLK PATDKDGKPL LPEPEEKPKP RSESELIDEL SEDFDRSECK EKPSKPTEKT EESKAAAPAP VSEAVCRTSM CSIQSAPPEP ATLKGTVPDD AVEALADSLG KKEADPEDGK PVMDKVKEKA KEEDREKLGE KEETIPPDYR LEEVKDKDGK PLLPKESKEQ LPPMSEDFLL DALSEDFSGP QNASSLKFED AKLAAAISEV VSQTPASTTQ AGAPPRDTSQ SDKDLDDALD KLSDSLGQRQ PDPDENKPME DKVKEKAKAE HRDKLGERDD TIPPEYRHLL DDNGQDKPVK PPTKKSEDSK KPADDQDPID ALSGDLDSCP 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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