

Recombinant Human CAST Protein (1-667 aa), His-tagged

Cat. No. CAST-1350H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CAST Protein (1-667 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Neuroscience. Protein Description: Full Length of isoform 4.
Species	Human
Source	Yeast
ProteinLength	1-667 aa
Description	Specific inhibition of calpain (calcium-dependent cysteine protease). Plays a key role in postmort tenderization of meat and have been proposed to be involved in muscle protein degradation in living tissue.
Form	Tris-based buffer,50% glycerol
Molecular Mass	73.9 kDa
AA Sequence	MNPTETKAVKTEPEKKSQSTKPKSLPKQASDTGSNDAHNNKAVSRSAEQQPSEKST EPKTKPQDMISAGGESVAGITAISGKPGDKKKEKSLTPAVPVESKPKDKPSGKSGMD AALDDLIDTLGGPEETEEENTTYTGPEVSDPMSSTYIEELGKREVTIPPKYRELLAKK EGITGPPADSSKPIGPDDAIDALSSDFTCGSPTAAGKKTEKEESTEVLKAQSAGTVR SAAPPQEKKRKVEKDTMSDQALEALSASLGTRQAPELDLRSIKEVD EAKAKEEKL KCGEDDETIPSEYRLKPATDKDGKPLLPEPEEKPKPRSESELIDELSEDFDRSECKE KPSKPTEKTEESKAAAPAVSEAVCRTSMCSIQSAPPEPATLKGTVPPDDAVEALADS

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LGKKEADPEDGKPVMDKVKEKAKEEDREKLGEKEETIPPDYRLEEVDKDKGKPLLP
 KESKEQLPPMSEDFLLDALSEDFSGPQNASSLKFEDAKLAAAISEVVSQTPASTTQA
 GAPPRDTSQSDKDLDDALDKLSDSLGQRQPDPDENKPMEDKVKEKAKAEHRDKLG
 ERDDTIPPEYRHLLDDNGQDKPVKPPTKKSEDSKKPADDQDPIDALSGDLDCPSTT
 ETSQNTAKDKCKKAASSSKAPKNGGKAKDSAKTTEETSKPKDD

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.

GENE INFORMATION

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

Official Symbol [CAST](#)

Synonyms CAST; calpastatin; BS-17; MGC9402;

Gene ID [831](#)

mRNA Refseq [NM_001042440](#)

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Protein Refseq	NP_001035905
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MIM	114090
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UniProt ID	P20810
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