

Recombinant Human Calpastatin(CAST)

Catalog No: #AP70122

Package Size: #AP70122-1 20ug #AP70122-2 100ug #AP70122-3 1mg

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Description

Product Name	Recombinant Human Calpastatin(CAST)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-667aaSequence Info:Full Length of isoform 4
Other Names	Calpain inhibitor;Sperm BS-17 component
Accession No.	P20810
Calculated MW	75.9 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	MNPTETKAVKTEPEKKSQSTKPKSLPKQASDTGSNDAHNKKAVSRSAEQQPSEKSTEPKTKPQDMISAGGES VAGITAISGKPGDKKKEKSLTPAVPVESKPDKPSGKSGMDAALDDLIDTLGGPEETEEENTTYTGPEVSDPM SSTYIEELGKREVTIPPKYRELLAKKEGITGPPADSSKPIGPDDAIDALSSDFTCGSPTAAGKKTEKEESTEVLKA QSAGTVRSAAPPQEKKRKVEKDTMSDQALEALSASLGTRQAEPELDLRSIKEVDEAKAKEEKLKCGEDDETI PSEYRLKPATDKDGKPLLPEPEEKPKPRSESELIDELSEDFFDRSECKEKPSKPTKTEESKAAAPAPVSEAVC RTSMCSIQSAPPEPATLKGTVPDDAVEALADSLGKKEADPEDGKPVMDKVKEKAKEEDREKLGEKEETIPPDY RLEEVKDKDGKPLLPKESKEQLPPMSDFLLDALSEDFSGPQNASSLKFEAKLAAAISEVVSQTPASTTQAG APPRDTSQSDKDLDLDAKLSDSLQGRQPDPDENKPMEDKVKEKAKAEHRDKLGERDDTIPPEYRHLLDDN GQDKPVKPPTTKSEDSKKPADDQDPIDALSGDLSDSCPSTTETSQNTAKDKCKKAASSSKAPKNGGKAKDSAK TTEETSKPKDD
Formulation	Tris-based buffer50% glycerol
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°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

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.

References

cDNA cloning of human calpastatin sequence homology among human, pig, and rabbit calpastatins.Asada K., Ishino Y., Shimada M., Shimojo T., Endo M., Kimizuka F., Kato I., Maki M., Hatanaka M., Murachi T.J. Enzym. Inhib. 3:49-56(1989)Research Topic:Neuroscience

Note: This product is for in vitro research use only and is not intended for use in humans or animals.