



Recombinant Human Calpastatin (CAST)

Product Code	CSB-EP004561HU-B
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.
Uniprot No.	P20810
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥85% (SDS-PAGE)
Sequence	MNPTETKAVKTEPEKKSQSTKPKSLPKQASDTGSNDAHNNKAVSRSAEQQPS EKSTEPKTKPQDMISAGGESVAGITAISGKPGDKKKEKSLTPAVPVESKPKDKP SGKSGMDAALDDLIDTLGGPEETEEENTTYTGPEVSDPMSSTYIEELGKREVTI PPKYRELLAKKEGITGPPADSSKPIGPDDAIDALSSDFTCGSPTAAGKKTEKEE STEVLKAQSAGTVRSAAPPQEKKRKVEKDTMSDQALEALSASLGTRQAEPEL DLRSIKEVDEAKAKEEKLEKCGEDDETIPSEYRLKPATDKDGKPLLPEPEEKPK PRSESELIDELSEDFRSECKEKPSKPTKTEESKAAAPAPVSEAVCRTSMCSI QSAPPEPATLKGTVPDDAVEALADSLGKKEADPEDGKPVMDKVKEKAKEEDR EKLGEKEETIPPDYRLEEVDKDKDGKPLLPKESKEQLPMSSEDFLLDALSEDFSG PQNASSLKFEDAKLAAAISEVVSQTPASTTQAGAPPRDTSQSDKDLDDALDKL SDSLGQRQPDENKPMEDKVKEKAKAEHRDKLGERDDTIPPEYRHLLDDNG QDKPVKPPTKKSSEDSKKPADDQDPIDALSGDLDCPSTTETSQNTAKDKCKKA ASSSKAPKNGGKAKDSAKTTEETSKPKDD
Research Area	Neuroscience
Source	E.coli
Target Names	CAST
Protein Names	Recommended name: Calpastatin Alternative name(s): Calpain inhibitor Sperm BS-17 component
Expression Region	1-667aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4? for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Partial of the full length of 1-708aa
Target Details	This protein 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. Several



alternatively spliced transcript variants of this gene have been described, but the full-length natures of only some have been determined.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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