



Recombinant Human Calpain-6 (CAPN6)

Product Code	CSB-MP897594HU
Abbreviation	CAPN6
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.	Q9Y6Q1
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥85% (SDS-PAGE)
Sequence	MGPPLKLFKN QKYQELKQEC IKDSRLFCDP TFLPENDSLF YNRLLPGKVV WKR PQDICDD PHLIVGNISN HQLTQGRLGH KPMVSAFSCS AVQESHWTKT IPNHKEQEWDPQKTEKYAGI FHFRFWHFGE WTEVVIDDLL PTINGDLVFS FSTSMNEFWN ALLEKAYAKL LGCYEALDGL TITDIIVDFT GTLAETVDMQ KGRYTELVVEE KYKLFGELYK TFTKGG LICC SIESPNQEEQ EVETDWGLLK GHTYTMTDIR KIRLGERLVE VFSAEKVY MV RLRNPLGRQE WSGPWSEISE EWQQLTASDR KNLGLVMSDD GEFWMSLEDF CRNFHKLNV C RNVNPIFGR KELESVLGCW TVDDDPLMNR SGGCYNNRDT FLQNPQYIFT VPEDGHKVIM SLQQKDLRTY RRMGRPDNYI IGFELFKVEM NRKFRLLHLY IQERAGTSTY IDTRTVFLSK YLKKGNVYLV PTMFQHGRTS EFLLRIFSEV PVQLRELTLD MPKMSCWNLA RGYPKVVTQI TVHSAEDLEK KYANETVNPY LVIKCGKEEV RSPVQKNTVH AIFDTQAIFY RRTTDIPIV QVWNSRKFCD QFLGQVTLDA DPSCDRDLKS LYLRKKG GPT AKVKQGHISF KVISSDDLTE L
Source	Mammalian cell
Target Names	CAPN6
Protein Names	Recommended name: Calpain-6 Alternative name(s): Calpain-like protease X-linked Calpamodulin Short name= CalpM
Expression Region	1-641
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	full length protein
Target Details	Calpains are ubiquitous, well-conserved family of calcium-dependent, cysteine proteases. The calpain proteins are heterodimers consisting of an invariant small subunit and variable large subunits. The large subunit possesses a cysteine protease domain, and both subunits possess calcium-binding domains. Calpains have been implicated in neurodegenerative processes, as their activation can be triggered by calcium influx and oxidative stress. This protein is highly expressed in the placenta. Its C-terminal region lacks any homology to



the calmodulin-like domain of other calpains. The protein lacks critical active site residues and thus is suggested to be proteolytically inactive. The protein may play a role in tumor formation by inhibiting apoptosis and promoting angiogenesis.

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

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.