



Recombinant Human Calpain-1 catalytic subunit (CAPN1)

Product Code	CSB-MP004490HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P07384
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥85% (SDS-PAGE)
Sequence	<p>SEEIITPVY CTGVSAQVQK QRARELGLGR HENAIKYLGG DYEQLRVRC QSGTLFRDEA FPPVPQSLGY KDLGPNSSKT YGIKWKRPT LLSNPQFIVD GATRTDICQG ALGDCWLLAA IASLTLNDTL LHRVPHGQS FQNGYAGIFH FQLWQFGEWV DVVDDLLPI KDGKLVFVHS AEGNEFWSAL LEKAYAKVNG SYEALSGGST SEGFEDFTGG VTEWYELRKA PSDLYQIILK ALERGSLLGC SIDISSVLDM EAITFKKLVK GHAYSVTGAK QVNYRGQVVS LIRMRNPWGE VEWTGAWSDS SSEWNNVDPY ERDQLRVKME DGEFWMSFRD FMREFTRLEI CNLTPDALKS RTIRKWNTTL YEGTWRRGST AGGCRNYPAT FWNPQFKIR LDETDDPDDY GDRESGCSFV LALMQKHRRR ERRFRDMET IGFVYEVPP ELVGQPAVHL KRDFFLANAS RARSEQFINL REVSTRFRLP PGEYVVVPST FEPNKEGDFV LRFSEKSAG TVELDDQIQA NLPDEQVLSE EEIDENFKAL FRQLAGEDME ISVKELRTIL NRIISKHKDL RTKGFSLESC RSMVNLMDRD GNGKLGLVEF NILWNRIRNY LSIFRKFDLD KSGSMSAYEM RMAIESAGFK LNKKLYELII TRYSEPLAV DFDNFVCCLV RLETMFRFFK TLDTDLGCVV TFDLFWLQL TMFA</p>
Source	Mammalian cell
Target Names	CAPN1
Protein Names	Recommended name: Calpain-1 catalytic subunit EC= 3.4.22.52 Alternative name(s): Calcium-activated neutral proteinase 1 Short name= CANP 1 Calpain mu-type Calpain-1 large subunit Cell proliferation-inducing gene 30 protei
Expression Region	2-714
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 of Mature Protein
Target Details	The calpains, calcium-activated neutral proteases, are nonlysosomal, intracellular cysteine proteases. The mammalian calpains include ubiquitous, stomach-specific, and muscle-specific proteins. The ubiquitous enzymes consist of heterodimers with distinct large, catalytic subunits associated with a common small, regulatory subunit. This gene encodes the large subunit of the ubiquitous enzyme, calpain 1.



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.