



# Recombinant Human Calpain-1 catalytic subunit (CAPN1)

<b>Product Code</b>	CSB-BP004490HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P07384
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	<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            FWVNPQFKIR 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 TRYSEPD LAV DFDNFVCCLV RLETMFRFFK            TLDTDLG VV TFDLFWLQL TMFA</p>
<b>Source</b>	Baculovirus
<b>Target Names</b>	CAPN1
<b>Protein Names</b>	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
<b>Expression Region</b>	2-714
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	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.



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**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.

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**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.