



# Recombinant Human Calpain-2 catalytic subunit (CAPN2)

<b>Product Code</b>	CSB-BP004496HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P17655
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	<p>S HDRAIKYLNQ DYEALRNECL EAGTLFQDPS FPAIPSALGF KELGPYSSKT            RGIEWKRPT E ICADPQFIIG GATRTDICQG ALGDCWLLAA IASLTLNEEI            LARVVPLNQS FQENYAGIFH FQFWQYGEWV EVVVDDRLPT KDGELLFVHS            AEGSEFWSAL LEKAYAKING CYEALSGGAT TEGFEDFTGG IAEWYELKKP            PPNLFKIIQK ALQKGSLLGC SIDITSAADS EAITFQKLVK GHAYSVTGAE            EVESNGSLQK LIRIRNPWGE VEW TGRWNDN CPSWNTIDPE ERERLTRRHE            DGEFWMSFSD FLRHYSRLEI CNLTPDTLTS DTYKKWKLTK MDGNWRRGST            AGGCRNYPNT FWMNPQYLIK LEEEDEDEED GESGCTFLVG LIQKHRRRQR            KMGEDMHTIG FGIYEVPEEL SGQTNHLSK NFFLTNRARE RSDTFINLRE            VLNRFKLPPG EYILVPSTFE PNKDGDFCIR VFSEKKADYQ AVDDEIEANL            EEFDISEDDI DDGFRRLFAQ LAGEDAEISA FELQTLRRV LAKRQDIKSD            GFSIETCKIM VDMLDSDGSG KLGLKEFYIL WTKIQKYQKI YREIDVDRSG            TMNSYEMRKA LEEAGFKMPC QLHQVIVARF ADDQLIIDFD NFVRCLVRLE            TLFKIFKQLD PENTGTIELD LISWLCFSVL</p>
<b>Source</b>	Baculovirus
<b>Target Names</b>	CAPN2
<b>Protein Names</b>	Recommended name: Calpain-2 catalytic subunit EC= 3.4.22.53 Alternative name(s): Calcium-activated neutral proteinase 2 Short name= CANP 2 Calpain M-type Calpain large polypeptide L2 Calpain-2 large subunit Millimolar
<b>Expression Region</b>	20-700
<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 2. Multiple heterogeneous transcriptional start sites in the 5' UTR have been reported. Two transcript variants encoding different isoforms



have been found for this gene.

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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.