



# Recombinant Mouse Calpain-1 catalytic subunit (Capn1)

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| <b>Product Code</b>      | CSB-MP004490MO   |
| <b>Storage</b>           | Store at -20°C, for extended storage, conserve at -20°C or -80°C.  |
| <b>Uniprot No.</b>       | O35350   |
| <b>Product Type</b>      | Recombinant Protein  |
| <b>Immunogen Species</b> | Mus musculus (Mouse)   |
| <b>Purity</b>            | >85% (SDS-PAGE)  |
| <b>Sequence</b>          | TEELITPVY CTGVSAQVQK KRDKELGLGR HENAIKYLGG DYETLRARCL<br>QSGVLFQDEA FPPVSHSLGF KELGPHSSKT YGIKWKRPT LMSNPQFIVD<br>GATRTDICQG ALGDCWLLAA IASLTLNETI LHRVVPYQGS FQDGYAGIFH<br>FQLWQFGEWV DVVIDDLLPT KDGKLVFVHS AQGNEFWSAL LEKAYAKVNG<br>SYEALSGGCT SEAFEDFTGG VTEWYDLQKA PSDLYQIILK ALERGSLLGC<br>SINISDIRDL EAITFKNLVR GHAYSVTGAK QVTYQGQRVN LIRMRNPWGE<br>VEWKGPWSDS SYEWNKVDPY EREQLRVKME DGEFWMSFRD FIREFTKLEI<br>CNLTPDALKS RTLRNWNTTF YEGTWRRGST AGGCRNYPAT FWVNPQFKIR<br>LEEVDADDY DNRESGCSFL LALMQKHRRR ERRFGRDMET IGFVYQVPR<br>ELAGQPVHLK RDDLFLANASR AQSEHFINLR EVSNRIRLPP GEYIVVPSTF<br>EPNKEGDFLL RFFSEKKAGT QELDDQIQAN LPDEKVLSEE EIDDNFKTLF<br>SKLAGDDMEI SVKELQTILN RIISKHKDLR TNGFSLESCR SMVNLMDRDG<br>NGKLGLVEFN ILWNRIRNYL TIFRKFDDLDK SGSMSAYEMR MAIEAAGFKL<br>NKKLHELIIT RYSEPD LAVD FDNFVCCCLR LETMFRFFKL LDTDLDGVVT<br>FDLFWLQLT MFA |
| <b>Source</b>            | Mammalian cell   |
| <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 Micromolar-calpain Short name= muCA   |
| <b>Expression Region</b> | 2-713  |
| <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.