



# Recombinant Rat Calpain-1 catalytic subunit (Capn1)

<b>Product Code</b>	CSB-YP004490RA
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P97571
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	<p>AEELITPVY CTGVSAQVQK QRDKELGLGR HENAIKYLGG DYENLRARCL  QNGVLFQDDA FPPVSHSLGF KELGPNSSKT YGIKWKRPT ELLSNPQFIVD  GATRTDICQG ALGDCWLLAA IASLTLNETI LHRVVPYQGS FQEGYAGIFH  FQLWQFGEWV DVVVDDLLPT KDGKLVFVHS AQGNEFWSAL LEKAYAKVNG  SYEALSGGCT SEAFEDFTGG VTEWYDLQKA PSDLYQIILK ALERGSLLGC  SINISDIRDL EAITFKNLVR GHAYSVTDK QVTYQGQRVN LIRMRNPWGE  VEWKGWSDN SYEWNKVDPY EREQLRVKME DGEFWMSFRD FIREFTKLEI  CNLTPDALKS RTLRNWNTTF YEGTWRRGST AGGCRNYPAT FWVNPQFKIR  LEEVDADDY DSRESGCSFL LALMQKHRRR ERRFGRDMET IGFVYQVPR  ELAGQPVHLK RDDLFLANASR AQSEHFINLR EVSNRIRLPP GEYIVVPSTF  EPNKEGDFLL RFFSEKKAGT QELDDQIQAN LPDEKVLSEE EIDDNFKTLF  SKLAGDDMEI SVKELQNILN RIISKHKDLR TNGFSLESCR SMVNLMDRDG  NGKLGLVEFN ILWNRIRNYL TIFRKFDDLDK SGSMSAYEMR MAIEAAGFKL  NKKLHELIIT RYSEPD LAVD FDNFVCCCLR LETMFRFFKI LDTDLDGVVT  FDLFWLQLT MFA</p>
<b>Source</b>	Yeast
<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.