



Recombinant Rat Calpain-1 catalytic subunit (Capn1)

Product Code	CSB-BP004490RA
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P97571
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	>85% (SDS-PAGE)
Sequence	<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 SVKELQTILN RIISKHKDLR TNGFSLESCR SMVNLMDRDG NGKLGLVEFN ILWNRIRNYL TIFRKFDDLDK SGSMSAYEMR MAIEAAGFKL NKKLHELIIT RYSEPD LAVD FDNFVCCCLR LETMFRFFKI LDTDLDGVVT FDLFWLQLT MFA</p>
Source	Baculovirus
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 Micromolar-calpain Short name= muCA
Expression Region	2-713
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.