

## CAPN1 Protein, Mouse, Recombinant (His)

### General Information

Synonyms:	Calpain mu-type;Capa1;Canp1;Calpain-1 large subunit;Capn1;Calpain-1 catalytic subunit; Micromolar-calpain (muCANP);Calcium-activated neutral proteinase 1 (CANP 1)
Protein Construction:	1-713 aa
Species:	Mouse
Expression Host:	E. coli
Accession:	O35350
Molecular Weight:	86.1 kDa (predicted)
AA Sequence:	MTEELITPVYCTGVSAQVQKKRDKEGLGRHENAICYLGQDYETLRARCLQSGVLFQDEAFPPVSHSLGFKEL GPHSSKTYGIKWKRPTELMSPQFIVDGAIRTDICQAGLGDWLLAAIASLTNETILHRVVPYQSFQDGYA GIFHFQLWQFGEWVDVVIDDLLPTKDGLVVFHSAQGNFWSALLEKAYAKVNGSYEALSGGCTSEAFEDFT GGVTEWYDLQKAPSDLYQIILKALERGSLLGCSINISDIRDLEAITFKNLVRGHAYSVTGAKQVTYQGQVRNLIR MRNPWGEVEWKGPWSDSSYEWNKVDPYEREQLRVKMEDGEFWMSFRDFIREFTKLEICNLTPDALKSRTL NWNTTFYEGTWRRGSTAGGCRNYPATFWVNPQFKIRLEEVDADDYDNRESGCSFLLALMQKHRRRRERF GRDMETIGFAVYQVPRELAGQPVHLKRDFFLANASRAQSEHFNLREVSNRIRLPPGEYIVVPSTFEPNKEGDF LLRFFSEKKAGTQELDDQIQANLPDEKVLSEEEIDDNFKTLFSKLAGDDMEISVKELQILNRIISKHKDLRTNGF SLESCRSVMNLMRDGNGKLGLVEFNILWNRIRNYLTIFRKFDLDKSGSMSAYEMRMAIEAAGFKLNKKLHEL IITRYSEPD LAVDFDNFVCCLVRLTETMFRFFKLLDTDL DGVVTFDLFKWLQLTMFA

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

#### Shipping:

In general, Lyophilized powders are shipping with blue ice. Solutions are shipping with dry ice.

### Protein Background

Calcium-regulated non-lysosomal thiol-protease which catalyzes limited proteolysis of substrates involved in cytoskeletal remodeling and signal transduction. Proteolytically cleaves CTBP1 at 'Asn-375', 'Gly-388' and 'His-410'.

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