

## CAPN2 Protein, Human, Recombinant (His)

## General Information

Synonyms:	CANPL2; Calcium-activated neutral proteinase 2 (CANP 2); Calpain M-type; CAPN2; Calpain-2 catalytic subunit; Millimolar-calpain (M-calpain); Calpain-2 large subunit; Calpain large polypeptide L2
Protein Construction:	20-700 aa
Species:	Human
Expression Host:	E. coli
Accession:	P17655
Molecular Weight:	82.1 kDa (predicted)
AA Sequence:	SHDRAIKYLNQDYEARNECLEAGTLFQDPSFPAIPALGFKELGPYSSKTRGIEWKRPTEICADPQFIIGGATR TDICQGALGDCWLLAAIASLTLNNEILARVVPLNQSFQENYAGIFHFQFWQYGEWVEVVDDRLPTKDGELLF VHSAEGSEFWWSALLEKAYAKINGCYEALSSGGATTEGFEDFTGGIAEWYELKKPPNLFKIIQKALQKGSLLGCSI DITSAADSEAITFQKLVKGHAYSVTGAEVESNGSLQKLIRIRNPWGEVWTGRWVNDNCPSWNTIDPEERERL TRRHEDGEFWMSFSDFLRHYSRLEICNLTPDTLTSDTYKKWKLTKMDGNWRRGSTAGGCRNYPNTFWMNP QYLIKLEEEDEEEDGESGCTFLVGLIQKRRRQRKMGEDMHTIGFGIYVEPEELSGQTNIHLSKNFFLTNRARE RSDTFINLREVLNRFKLPPEYILVPSTFEPNKDGDFCIRVFSEKKADYQAVDDEIEANLEEFDISEDIDDDGFRR LFAQLAGEDAEISAFELQILRRVLAKRQDIKSDGFSIETCKIMVDMLDSDGSGKLGKLFYILWTKIQYQKIYR EIDVDRSGTMNSYEMRKALEEAGFKMPCQLHQVIVARFADDQLIIDFNFVRCLVRLETFLFKFKQLDPENTGT IELDLISWLCFSVL

## 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, 50% glycerol

## Preparation and Storage

## 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.

## Stability &amp; 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.

Actual storage temperature shall be subject to the COA.

### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped 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 MYOC at 'Arg-226'. Proteolytically cleaves CPEB3 following neuronal stimulation which abolishes CPEB3 translational repressor activity, leading to translation of CPEB3 target mRNAs.

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