

CAPN1 Protein, Human, Recombinant (His)

General Information

Synonyms:	CAPN1; Calcium-activated neutral proteinase 1 (CANP 1); Calpain-1 catalytic subunit; Micromolar-calpain (muCANP); Calpain mu-type; Cell proliferation-inducing gene 30 protein; CANPL1; Calpain-1 large subunit
Protein Construction:	1-714 aa
Species:	Human
Expression Host:	E. coli
Accession:	P07384
Molecular Weight:	85.9 kDa (predicted)
AA Sequence:	MSEIITPVYCTGVSAQVQKQRARELGLGRHENAIKYLGDYEQLRVRLQSGTLFRDEAFPPVPQSLGYKDL GNSSSKTYGIKWKRPTELLSNPQFIVD GATRTRDQCQALGDCWLLAAIASLTLNDTLLHRVVPHGQSFQNGYA GIFHFQLWQFGWEVDVVVDDLLPIKDGKLVFVHSAEGNEFW SALLEKAYAKVNGSYEALSGGSTSEGFEDFT GGVTEWYELRKAPSDLYQIILKALERGSLLGCSIDISSVLDMEAITFKKLVKGHAYSVTGAKQVNYRGQVSLIR MRNPWGEVEWTGAWS DSSSEWNNVDPYERDQLRVKMEGGEFWM SFRDFMREFTRLEICNLTPDALKSRTI RKWNTTLYEGTWRRGSTAGGCRNYPATFWVNPQFKIRLDETDDPDDYGDRESGCSFVLALMQKRRRRRRR GRDMETIGFAVYEVPELVGQPAVHLKRDFFLANASRARSEQFINLREVSTRFRLPPGEYVVVPSTFEPNKEGD FVLRFFSEKSAGTVELDDQIQANLPDEQVLSEEEIDENFKALFRQLAGEDMEISVKELRILNRIISKHKDLRTKG FSLESCRS MVNLM DRDGNGLGLVEFNILWNRIRNYLSIFRKF DLKSGSMSAYEMRMAIESAGFKLNKKLYE LIITRYSEPLAVDFDNFVCCLVRL ETMFRFFKTLDTDL DGVVTFDLFKWLQ LTMFA

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:

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 & 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 CTBP1 at 'Asn-375', 'Gly-387' and 'His-409'.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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