



# Recombinant Human Calpain-1 catalytic subunit (CAPN1)

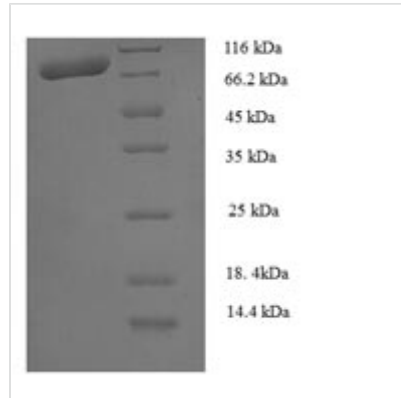
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|--------------------------|--|
| <b>Product Code</b>      | CSB-EP004490HU   |
| <b>Relevance</b>         | Calcium-regulated non-lysosomal thiol-protease which catalyze limited proteolysis of substrates involved in cytoskeletal remodeling and signal transduction.   |
| <b>Abbreviation</b>      | Recombinant Human CAPN1 protein  |
| <b>Storage</b>           | 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.  |
| <b>Uniprot No.</b>       | P07384   |
| <b>Alias</b>             | Calcium-activated neutral proteinase 1 ;CANP 1Calpain mu-typeCalpain-1 large subunit;Cell proliferation-inducing gene 30 protein;Micromolar-calpain ;muCANP  |
| <b>Product Type</b>      | Recombinant Protein  |
| <b>Immunogen Species</b> | Homo sapiens (Human)   |
| <b>Purity</b>            | ≥ 90% as determined by SDS-PAGE.   |
| <b>Sequence</b>          | MSEIITPVYCTGVSAQVQKQRARELGLGRHENAIKYLGGDYEQLRVRCCLQSG<br>TLFRDEAFPPVPQSLGYKDLGPNSSKTYGIKWKRPTELLSNPQFIVDGATRTDI<br>CQGALGDCWLLAAIASLTLNDTLLHRVVPHGQSFQNGYAGIFHFQLWQFGEW<br>VDVVDDLLPIKDGKLVFVHSAEGNEFWSALLEKAYAKVNGSYEALSGGSTSE<br>GFEDFTGGVTEWYELRKAPSDLYQIILKALERGSLLGCSIDISSVLDMEAITFKK<br>LVKGHAYSVTGAKQVNYRGQVSLIRMRNPWGEVEWTGAWSDSSSEWNNV<br>DPYERDQLRVKMEDGEFWMSEFRDFMREFTRLEICNLTPDALKSRTIRKWNTT<br>LYEGTWRRGSTAGGCRNYPATFWVNPQFKIRLDETDDPDDYGDRESGCSFV<br>LALMQKHRRRERRFRDMETIGFAVYEVPELVGQPAVHLKRDFFLANASRA<br>RSEQFINLREVSTRFRLPPGEYVVVPSTFEPNKEGDFVLRFFSEKSAGTVELD<br>DQIQANLPDEQVLSEEEIDENFKALFRQLAGEDMEISVKELRTILNRIISKHKDLR<br>TKGFSLESCRSMVNLMDRDGNGLGLVEFNILWNRIRNYLSIFRKFDLKD KSGS<br>MSAYEMRMAIESAGFKLNKKLYELIITRYSEPDLAVDNFDNFVCCCLVRLETMFRF<br>FKTLDTDLDGVVTFDLFKWLQLTMFA |
| <b>Research Area</b>     | Cell Biology   |
| <b>Source</b>            | E.coli   |
| <b>Target Names</b>      | CAPN1  |
| <b>Expression Region</b> | 1-714aa  |
| <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>          | N-terminal 6xHis-tagged  |



**Mol. Weight** 85.9kDa

**Protein Length** Full Length

**Image**



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

**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.