



# Recombinant Human Calpain-5 (CAPN5)

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| <b>Product Code</b>      | CSB-MP004498HU   |
| <b>Storage</b>           | Store at -20°C, for extended storage, conserve at -20°C or -80°C.  |
| <b>Uniprot No.</b>       | O15484   |
| <b>Product Type</b>      | Recombinant Protein  |
| <b>Immunogen Species</b> | Homo sapiens (Human)   |
| <b>Purity</b>            | >85% (SDS-PAGE)  |
| <b>Sequence</b>          | MFSCVKPYED QNYSALRRDC RRRKVLFDLP LFPATDDSLY YKGTPGPAVR<br>WKRPKGICED PRLFVDGISS HDLHQGQVGN CWFVAACSSL ASRESLWQKV<br>IPDWKEQEWD PEKPNAYAGI FHFHFWRFGE WVDVVIDDRL PTVNNQLIYC<br>HSNSRNEFWC ALVEKAYAKL AGCYQALDGG NTADALVDFT GGVSEPIDLT<br>EGDFANDETK RNQLFERMLK VHSRGGGLISA SIKAVTAADM EARLACGLVK<br>GHAYAVTDVR KVRLGHGLLA FFKSEKLDLMI RLRNPWGERE WNGPWSDTSE<br>EWQKVKSER EKMGVTQDD GEFWMTFEDV CRYFTDIIKC RVINTSHLSI<br>HKTWEEARLH GAWTLHEDPR QNRGGGCINH KDTFFQNPQY IFEVKKPEDE<br>VLICIQRPK RSTRREGKGE NLAIGFDIYK VEENRQYRMH SLQHKAASSI<br>YINSRSVFLR TDQPEGRYVI IPTTFEPGHT GEFLLRVFTD VPSNCRELRL<br>DEPHTCWSS LCGYPQLVTQ VHVGAAGLK DSPTGANSYV IIKCEGDKVR<br>SAVQKGTSTP EYNVKGIFYR KKLSQPITVQ VWNHRVLKDE FLGQVHLKAD<br>PDNLQALHTL HLRDRNSRQP SNLPGTVAVH ILSSTSLMAV |
| <b>Source</b>            | Mammalian cell   |
| <b>Target Names</b>      | CAPN5  |
| <b>Protein Names</b>     | Recommended name: Calpain-5 EC= 3.4.22.- Alternative name(s): Calpain<br>htra-3 New calpain 3 Short name= nCL-3  |
| <b>Expression Region</b> | 1-640  |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at<br>4°C for up to one week.   |
| <b>Tag Info</b>          | Tag type will be determined during the manufacturing process.  |
| <b>Protein Length</b>    | Full length protein  |
| <b>Target Details</b>    | Calpains are calcium-dependent cysteine proteases involved in signal<br>transduction in a variety of cellular processes. A functional calpain protein<br>consists of an invariant small subunit and 1 of a family of large subunits. CAPN5<br>is one of the large subunits. Unlike some of the calpains, CAPN5 and CAPN6<br>lack a calmodulin-like domain IV. Because of the significant similarity to<br>Caenorhabditis elegans sex determination gene tra-3, CAPN5 is also called as<br>HTRA3.   |
| <b>Reconstitution</b>    | We recommend that this vial be briefly centrifuged prior to opening to bring the<br>contents to the bottom. Please reconstitute protein in deionized sterile water to a<br>concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final<br>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.