



# Recombinant Human Calpain-5 (CAPN5)

<b>Product Code</b>	CSB-EP004498HU
<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 YKGTGPAVR WKRPKGICED PRLFVDGISS HDLHQGQVGN CWFVAACSSL ASRESLWQKV IPDWKEQEWDP EKPNAYAGI FHFHFWRFGW WVDVVIDDRL PTVNNQLIYC HSNSRNEFWC ALVEKAYAKL AGCYQALDGG NTADALVDFT GGVSEPIDLT EGDFANDETK RNQLFERMLK VHSRGLISA SIKAVTAADM EARLACGLVK GHAYAVTDVR KURLGHGLLA FFKSEKLDML RLRNPWGERE WNGPWSDTSE EWQKVKSKSER EKMGVTVQDD GEFWMTFEDV CRYFTDIKC RVINTSHLSI HKTWEEARLH GAWTLHEDPR QNRGGGCINH KDFFFQNPQY IFEVKKPEDE VLICIQQRPK RSTRREGKGE NLAIGFDIYK VEENRQYRMH SLQHKAASSI YINSRSVFLR TDQPEGRYVI IPTTFEPGHT GEFLLRVFTD VPSNCRELRL DEPHTCWSS LCGYPQLVTQ VHVGAAGLK DSPTGANSYV IIKCEGDKVR SAVQKGTSTP EYNVKGIFYR KKLSQPITVQ VWNHRVLKDE FLGQVHLKAD PDNLQALHTL HLRDRNSRQP SNLPGTVAVH ILSSTSLMAV
<b>Source</b>	E.coli
<b>Target Names</b>	CAPN5
<b>Protein Names</b>	Recommended name: Calpain-5 EC= 3.4.22.- Alternative name(s): Calpain 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 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 transduction in a variety of cellular processes. A functional calpain protein consists of an invariant small subunit and 1 of a family of large subunits. CAPN5 is one of the large subunits. Unlike some of the calpains, CAPN5 and CAPN6 lack a calmodulin-like domain IV. Because of the significant similarity to Caenorhabditis elegans sex determination gene tra-3, CAPN5 is also called as HTRA3.
<b>Reconstitution</b>	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.

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**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.