



# Recombinant Human Calpain-10 (CAPN10)

<b>Product Code</b>	CSB-MP864027HU
<b>Abbreviation</b>	CAPN10
<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>	Q9HC96
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	MRAGRGATPA RELFRDAAFP AADSSLFCDL STPLAQFRED ITWRRPQEIC ATPRLFPDDP REGQVKQGLL GDCWFLCACA ALQKSRHLLD QVIPPGQPSW ADQEYRGSFT CRIWQFGRWV EVTTDDRLPC LAGRLCFSRC QREDVFWLPL LEKVYAKVHG SYEHLWAGQV ADALVDLTGG LAERWNLKGV AGSGGQQDRP GRWEHRTCRQ LLHLKDQCLI SCCVLSPRAG ARELGEFHAF IVSDLRELQG QAGQCILLR IQNPWGRRCW QGLWREGGEG WSQVDAAVAS ELLSQLQEGE FWVEEEFLR EFDELTVGY P VTEAGHLQSL YTERLLCHTR ALPGAWVKGQ SAGGCRNNSG FPSNPKFWLR VSEPSEVYIA VLQRSRLHAA DWAGRARALV GDSHTSWSPA SIPGKHYQAV GLHLWKVEKR RVNLPRVLSM PPVAGTACHA YDREVHLRCE LSPGYLAVP STFLKDAPGE FLLRVFSTGR VLSAIRAVA KNTTPGAALP AGEWGTVQLR GSWRVGQTAG GSRNFASYPT NPCFPFSVPE GPGPRCVRIT LHQHCRPSDT EFHPIGFHIF QVPEGGRSQD APPLLLQEPL LSCVPHRYAQ EVSRLCLLPA GTYKVPSTY LPDTEGAFTV TIATRDRPS IHSQEMLGQF LQEVSIMAVM KT
<b>Source</b>	Mammalian cell
<b>Target Names</b>	CAPN10
<b>Protein Names</b>	Recommended name: Calpain-10 EC= 3.4.22.- Alternative name(s): Calcium-activated neutral proteinase 10 Short name= CANP 10
<b>Expression Region</b>	1-672
<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 ubiquitous, well-conserved family of calcium-dependent, cysteine proteases. The calpain proteins are heterodimers consisting of an invariant small subunit and variable large subunits. The large catalytic subunit has four domains: domain I, the N-terminal regulatory domain that is processed upon calpain activation; domain II, the protease domain; domain III, a linker domain of unknown function; and domain IV, the calmodulin-like calcium-binding domain.



This gene encodes a large subunit. It is an atypical calpain in that it lacks the calmodulin-like calcium-binding domain and instead has a divergent C-terminal domain. It is similar in organization to calpains 5 and 6. This gene is associated with type 2 or non-insulin-dependent diabetes mellitus (NIDDM) and located within the NIDDM1 region. Multiple alternative transcript variants encoding different isoforms have been described for this gene.

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**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.

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**Shelf Life**

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