



# Recombinant Human Calpain-9 (CAPN9)

<b>Product Code</b>	CSB-BP004502HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	O14815
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	<p>MPYLYRAPGP QAHPVPKDAR ITHSSGQSFE QMRQECLQRG TLFEDADFP  SNSSLFYSER PQIPFVWKRK GEIVKNPEFI LGGATRTRDQ QGELGDCWLL  AAIASLTLNQ KALARVIPQD QSFPGYAGI FHFQFWQHSE WLDVVIDDRL  PTFRDRLVFL HSADHNEFWS ALLEKAYAKL NGSYEALKGG SAIEAMEDFT  GGVAETFQTK EAPENFYEIL EKALKRGSLL GCFIDTRSAA ESEARTPFGL  IKGHAYSVTG IDQVSFRGQR IELIRIRNPW GQVEWNGSWS DSSPEWRSVG  PAEQKRLCHT ALDDGEFWMA FKDFKAHFDK VEICNLTPDA LEEDAIHKWE  VTVHQGSWVR GSTAGGCRNF LDTFWTNPQI KLSLTEKDEG QEECSFLVAL  MQKDRRKLKR FGANVLTIGY AIYECDPKDE HLNKDFFRYH ASRARSKTFI  NLREVSDRFK LPPGEYLIP STFEHQEAD FCLRIFSEKK AITRDMDGNV  DIDLPEPPKP TPPDQETEEE QRFRALFEQV AGEDMEVTAE ELEYVLNAV  L QKKKDIKFKK LSLISCKNII SLMDTSGNGK LEFDEFKVFVW DKLKQWINLF  LRFADKSGT MSTYELRTAL KAAGFQLSSH LLQLIVLRYA DEELQLDFDD  FLNCLVRLN ASRVFQALST KNKEFIHLNI NEFIHLTMNI</p>
<b>Source</b>	Baculovirus
<b>Target Names</b>	CAPN9
<b>Protein Names</b>	Recommended name: Calpain-9 EC= 3.4.22.- Alternative name(s): Digestive tract-specific calpain New calpain 4 Short name= nCL-4 Protein CG36
<b>Expression Region</b>	1-690
<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>	<p>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 subunit possesses a cysteine protease domain, and both subunits possess calcium-binding domains. Calpains have been implicated in neurodegenerative processes, as their activation can be triggered by calcium influx and oxidative stress. This protein is expressed predominantly in stomach and small intestine and may have specialized functions in the digestive tract. This gene is thought to be associated with gastric cancer. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene.</p>



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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**

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.