

CAPN1 Protein, Mouse (His)

Cat. No.:	HY-P72114
Synonyms:	Capn1; Canp1; Capa1Calpain-1 catalytic subunit; EC 3.4.22.52; Calcium-activated neutral proteinase 1; CANP 1; Calpain mu-type; Calpain-1 large subunit; Micromolar-calpain; muCANP
Species:	Mouse
Source:	E. coli
Accession:	O35350 (M1-A713)
Gene ID:	12333
Molecular Weight:	Approximately 86.1 kDa

PROPERTIES

AA Sequence

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MTEELITPVY   CTGVSAQVQK   KRDKELGLGR   HENAIKYL GQ
DYETLRARCL   QSGVLFQDEA   FPPVSHSLGF   KELGPHSSKT
YGIKWKRPTE   LMSNPQFIVD   GATRTRDICQG   ALGDCWLLAA
IASLTLNETI   LHRVVPYGQS   FQDGYAGIFH   FQLWQFGWEV
DVVIDDLLPT   KDGKLVFVHS   AQGNEFWSAL   LEKAYAKVNG
SYEALSGGCT   SEAFEDFTGG   VTEWYDLQKA   PSDLYQIILK
ALERGSLLGC   SINISDIRDL   EAITFKNLVR   GHAYSVTGAK
QVTYQQQRVN   LIRMRNPWGE   VEWKGPWSDS   SYEWNKVDPY
EREQLRVKME   DGEFWMsFRD   FIREFTKLEI   CNLTPDALKS
RTLNRWNTTF   YEGTWRRGST   AGGCRNYPAT   FWVNPQFKIR
LEEVD DADDY   DNRESGCSFL   LALMQKHRRR   ERRFRGRDMET
IGFAVYQVPR   ELAQPVHLK   R DFFLANASR   AQSEHFINLR
EVSNRIRLPP   GEYIVVPSTF   EPNKEGD FLL   RFFSEKKAGT
QELDDQIQAN   LPDEKVLSEE   EIDDNFKTLF   SKLAGDDMEI
SVKELQTI LN   RIISKHKDLR   TNGFSLESCR   SMVNLMDRDG
NGKLG LVEFN   ILWNRIRNYL   TIFRKFDL DK   SGSMSAYEMR
MAIEAAGFKL   NKKLHEL IIT   RYSEPD LAVD   FDNFVCC LVR
LETMFRFFKL   LDTDL DGVVT   FDLFKWLQ LT   MFA
  
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Biological Activity The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.

Appearance Lyophilized powder.

Formulation Lyophilized from a 0.2 µm solution of Tris-based buffer, 50% Glycerol.

Endotoxin Level <1 EU/µg, determined by LAL method.

Reconstitution It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH₂O.

Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping

Room temperature in continental US; may vary elsewhere.

DESCRIPTION**Background**

CAPN1 is a calcium-regulated non-lysosomal thiol-protease that plays a crucial role in cytoskeletal remodeling and signal transduction. It selectively catalyzes limited proteolysis of substrates involved in these processes. Specifically, CAPN1 targets CTBP1 and cleaves it at 'Asn-375', 'Gly-388', and 'His-410'. Additionally, CAPN1 is responsible for the cleavage and activation of caspase-7 (CASP7), further emphasizing its importance in regulating cellular functions.

Caution: Product has not been fully validated for medical applications. For research use only.

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