Calpain-5 (CAPN5) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Calpain-5 (Capn5), Recombinant Protein
Full Product Name	Recombinant Rat Calpain-5 (Capn5)
Product Gene Name	Capn5 recombinant protein
Product Synonym Gene Name	Capn5
Sequence	MFSCTKAYEY QNYSALKRAC LRRKVLFEDP HFPASDDSLY YKGTPGPTVR WKRPFDICDD PRLFVDGISS HDLHQGQVGN CWFVAACSSL ASRESLWQKV IPDWKEQEWN PEKPDSYAGI FHFNFWRFGE WVDVVVDDRL PTVNNQLIYC HSNSKNEFWC APVEKAYAKL AGCYQALDGG NTADALVDFT GGVSEPIDLT EGDLATDEAK RSQLFERVLK VHSRGGLISA SIKAMTAADM ETRLACGLVK GHAYAVTDVR KVRLGHGLLA FFKSEKLDMI RLRNPWGERV WTGPWSDTSE EWQKVSKSER EKMGVTVQDD GEFWMTYEDM CRYFTDIIKC RLINTSYLSI HKTWEEARLR GAWTRHEDPQ QNRSGGCINH KDTFFQNPQY IFEVKKPEDE VLICIQQRPK RSTRREGKGE NLAIGFDIYK VEENRQYRMH SLQHKAASSI YINSRSVFLR TELPEGRYVI IPTTFEPGHT GELLLRVFTD VPSNCRELRL DEPPRTCWSS LCGYPQQVTQ VHVLGAAGLK DSSTGANSYV IIKCEGEKVR SAVQRGTSTP EYNVKGIFYR KKLSQPITVQ VWNNRVLKDE FLGQVHLKTA PDDLQDLHSL HLQDRSGRQP SDLPGIVAVR VLCSASLTAV
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	73,065 Da
Sequence Positions	1-640, full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q8R4C0
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Capn5 recombinant protein	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.
Other Notes	Small volumes of Capn5 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Capn5 purchase	MBS1384266 is a recombinant protein targeting Capn5. Also known as Recombinant Rat Calpain-5 (Capn5). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Capn5. It may not necessarily be applicable to this product.

NCBI GI #	28376969
NCBI GeneID	171495
NCBI Accession #	Q8R4C0.1
UniProt Primary Accession #	Q8R4C0
UniProt Related Accession #	Q8R4C0
NCBI Official Full Name	Calpain-5
NCBI Official Synonym Full Names	calpain 5
NCBI Official Symbol	Capn5
NCBI Official Synonym Symbols	Htra3
UniProt Protein Name	Calpain-5
Protein Family	Calpain
UniProt Gene Name	Capn5
NCBI Protein Information	calpain-5
NCBI Summary for Capn5	human and mouse homologs are members of a subset of the calpain family of proteases that lack a calmodulin-like domain [RGD, Feb 2006]
UniProt Comments for Capn5	Calcium-regulated non-lysosomal thiol-protease.
Research Articles on Capn5	**1.** CAPN5 is found in punctate domains associated with promyelocytic leukemia (PML) protein within the nucleus.
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