CAPN1 Peptide - Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	CAPN1, Blocking Peptide
Full Product Name	CAPN1 Peptide - middle region
Product Gene Name	CAPN1 blocking peptide
Product Synonym Gene Name	CANP; muCL; CANP1; CANPL1; muCANP
Sequence	Synthetic peptide located within the following region: PATFWVNPQF KIRLDETDDP DDYGDRESGC SFVLALMQKH RRRERRFGRD
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	CAPN1 peptide (MBS3246325) is used for blocking the activity of CAPN1 antibody (MBS3221592)
Molecular Weight	78 kDa
OMIM	114220
Product Categories/Family for CAPN1 blocking peptide	Peptide
Related Product Information for CAPN1 blocking peptide	This is a synthetic peptide designed for use in combination with anti-CAPN1 Antibody, made Target Description: The calpains, calcium-activated neutral proteases, are nonlysosomal, intracellular cysteine proteases. The mammalian calpains include ubiquitous, stomach-specific, and muscle-specific proteins. The ubiquitous enzymes consist of heterodimers with distinct large, catalytic subunits associated with a common small, regulatory subunit. This gene encodes the large subunit of the ubiquitous enzyme, calpain 1. Several transcript variants encoding two different isoforms have been found for this gene.
Other Notes	Small volumes of CAPN1 blocking peptide 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 CAPN1 purchase	MBS3246325 is a blocking peptide targeting CAPN1. Also known as CAPN1 Peptide - middle region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CAPN1. It may not necessarily be applicable to this product.

NCBI GI #	311893363
NCBI GeneID	823
NCBI Accession #	NP_001185797.1
UniProt Primary Accession #	P07384
UniProt Related Accession #	P07384
GenBank Nucleotide #	NM_001198868.1
NCBI Official Full Name	calpain-1 catalytic subunit

NCBI Official Synonym Full Names	calpain 1
NCBI Official Symbol	CAPN1
NCBI Official Synonym Symbols	CANP; muCL; CANP1; SPG76; CANPL1; muCANP
UniProt Protein Name	Calpain-1 catalytic subunit
UniProt Synonym Protein Names	Calcium-activated neutral proteinase 1; CANP 1; Calpain mu-type; Calpain-1 large subunit; Cell proliferation-inducing gene 30 protein; Micromolar-calpain
Protein Family	Calpain
UniProt Gene Name	CAPN1
UniProt Synonym Gene Names	CANPL1; CANP 1; muCANP
UniProt Entry Name	CAN1_HUMAN
NCBI Protein Information	calpain-1 catalytic subunit
NCBI Summary for CAPN1	The calpains, calcium-activated neutral proteases, are nonlysosomal, intracellular cysteine proteases. The mammalian calpains include ubiquitous, stomach-specific, and muscle-specific proteins. The ubiquitous enzymes consist of heterodimers with distinct large, catalytic subunits associated with a common small, regulatory subunit. This gene encodes the large subunit of the ubiquitous enzyme, calpain 1. Several transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Nov 2010]
UniProt Comments for CAPN1	CAPN1: Calcium-regulated non-lysosomal thiol-protease which catalyze limited proteolysis of substrates involved in cytoskeletal remodeling and signal transduction. Forms a heterodimer with a small (regulatory) subunit (CAPNS1). Ubiquitous. Activated by micromolar concentrations of calcium and inhibited by calpastatin. Belongs to the peptidase C2 family. Protein type: EC 3.4.22.52; Motility/polarity/chemotaxis; Protease Chromosomal Location of Human Ortholog: 11q13 Cellular Component: focal adhesion; membrane; cytoplasm; plasma membrane; cytosol Molecular Function: protein binding; calcium-dependent cysteine-type endopeptidase activity; calcium ion binding Biological Process: extracellular matrix disassembly; extracellular matrix organization and biogenesis; receptor catabolic process; positive regulation of cell proliferation; proteolysis
Research Articles on CAPN1	**1.** Unexpected role of the L-domain of calpastatin during the autoproteolytic activation of human erythrocyte calpain.
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