CMA1 Peptide - C-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	CMA1, Blocking Peptide
Full Product Name	CMA1 Peptide - C-terminal region
Product Gene Name	CMA1 blocking peptide
Product Synonym Gene Name	CYH; MCT1; MGC119890; MGC119891; chymase
Sequence	EVKLRLMDPQ ACSHFRDFDH NLQLCVGNPR KTKSAFKGDS GGPLLCAGVA
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	CMA1 peptide (MBS3239545) is used for blocking the activity of CMA1 antibody (MBS3214608)
Molecular Weight	27kDa
OMIM	118938
Product Categories/Family for CMA1 blocking peptide	Peptide
Applications Tested/Suitable for CMA1 blocking peptide	Western Blot (WB)
Related Product Information for CMA1 blocking peptide	This is a synthetic peptide designed for use in combination with anti-CMA1 Antibody, made Target Description: CMA1 is a chymotryptic serine proteinase that belongs to the peptidase family S1. It is expressed in mast cells and thought to function in the degradation of the extracellular matrix, the regulation of submucosal gland secretion, and the generation of vasoactive peptides. In the heart and blood vessels, this protein, rather than angiotensin converting enzyme, is largely responsible for converting angiotensin I to the vasoactive peptide angiotensin II. Angiotensin II has been implicated in blood pressure control and in the pathogenesis of hypertension, cardiac hypertrophy, and heart failure. Thus, this gene product is a target for cardiovascular disease therapies.
Other Notes	Small volumes of CMA1 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 CMA1 purchase	MBS3239545 is a blocking peptide targeting CMA1. Also known as CMA1 Peptide - C-terminal region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CMA1. It may not necessarily be applicable to this product.

NCBI GI #	4502907
NCBI GeneID	1215
NCBI Accession #	NP_001827
UniProt Primary Accession #	P23946
UniProt Related Accession #	P23946

GenBank Nucleotide #	NM_001836
NCBI Official Full Name	chymase isoform 1 preproprotein
NCBI Official Synonym Full Names	chymase 1
NCBI Official Symbol	CMA1
NCBI Official Synonym Symbols	CYH; MCT1; chymase
UniProt Protein Name	Chymase
UniProt Synonym Protein Names	Alpha-chymase; Mast cell protease I
Protein Family	Chymase
UniProt Gene Name	CMA1
UniProt Synonym Gene Names	CYH; CYM
UniProt Entry Name	CMA1_HUMAN
NCBI Protein Information	chymase
NCBI Summary for CMA1	This gene encodes a chymotryptic serine proteinase that belongs to the peptidase family S1. It is expressed in mast cells and is thought to function in the degradation of the extracellular matrix, the regulation of submucosal gland secretion, and the generation of vasoactive peptides. In the heart and blood vessels, this protein, rather than angiotensin converting enzyme, is largely responsible for converting angiotensin I to the vasoactive peptide angiotensin II. Alternative splicing results in multiple variants. [provided by RefSeq, Apr 2015]
UniProt Comments for CMA1	CMA1: Major secreted protease of mast cells with suspected roles in vasoactive peptide generation, extracellular matrix degradation, and regulation of gland secretion. Belongs to the peptidase S1 family. Granzyme subfamily. Protein type: Secreted, signal peptide; Protease; Secreted; EC 3.4.21.39 Chromosomal Location of Human Ortholog: 14q11.2 Cellular Component: extracellular matrix; extracellular space; extracellular region; intracellular Molecular Function: serine-type peptidase activity; serine-type endopeptidase activity; peptide binding Biological Process: extracellular matrix disassembly; interleukin-1 beta biosynthetic process; positive regulation of angiogenesis; extracellular matrix organization and biogenesis; cellular protein metabolic process; midbrain development; regulation of inflammatory response; protein processing; angiotensin maturation; proteolysis
Research Articles on CMA1	**1.** These findings reveal the critical role of hypoxia in producing local angiotensin II by a lactate-chymase-dependent mechanism and highlight the importance of local angiotensin II in regulating radioresistance of hypoxic tumor cells.
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