Cathepsin E Blocking Peptide – >85% Purity

PRODUCT OVERVIEW

Product Name	Cathepsin E (CTSE), Blocking Peptide
Full Product Name	Cathepsin E Blocking Peptide
Product Gene Name	CTSE blocking peptide
Product Synonym Names	Cathepsin E
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	>85%
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Antibody/Peptide Pairs	Cathepsin E peptide (MBS823267) is used for blocking the activity of Cathepsin E antibody (MBS820964)
Molecular Weight	39,553 Da
OMIM	116890
Quality Control	The quality of the peptide was evaluated by reversed-phase HPLC and by mass spectrometry.
Applications Tested/Suitable for CTSE blocking peptide	Blocking (BL)
Application Notes for CTSE blocking peptide	Blocking Peptide to the diluted primary antibody in a molar ratio of 10:1 (peptide to antibody) and incubate the mixture at 4 degree C for overnight or at room temperature for 2 hours.
Related Product Information for CTSE blocking peptide	MBS823267 is a blocking peptide targeting CTSE. Also known as Cathepsin E Blocking Peptide. Reactive in Human. Host: Synthetic. The peptide is used to block Anti-Cathepsin E Antibody reactivity.
Other Notes	Small volumes of CTSE 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.

ADDITIONAL DETAILS

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

NCBI GI #	4503145
NCBI GeneID	1510
NCBI Accession #	NP_001901.1
UniProt Primary Accession #	P14091
UniProt Secondary Accession #	Q5TZ01; Q5TZ02; Q9NY58; Q9UCE3; Q9UCE4
UniProt Related Accession #	P14091
GenBank Nucleotide #	NM_001910.3
NCBI Official Full Name	cathepsin E isoform a preproprotein
NCBI Official Synonym Full Names	cathepsin E

NCBI Official Symbol	CTSE
NCBI Official Synonym Symbols	CATE
UniProt Protein Name	Cathepsin E
Protein Family	Cathepsin
UniProt Gene Name	CTSE
UniProt Entry Name	CATE_HUMAN
NCBI Protein Information	cathepsin E; slow-moving proteinase; erythrocyte membrane aspartic proteinase
NCBI Summary for CTSE	The protein encoded by this gene is a gastric aspartyl protease that functions as a disulfide-linked homodimer. This protease, which is a member of the peptidase C1 family, has a specificity similar to that of pepsin A and cathepsin D. It is an intracellular proteinase that does not appear to be involved in the digestion of dietary protein and is found in highest concentration in the surface of epithelial mucus-producing cells of the stomach. It is the first aspartic proteinase expressed in the fetal stomach and is found in more than half of gastric cancers. It appears, therefore, to be an oncofetal antigen. Transcript variants utilizing alternative polyadenylation signals and two transcript variants encoding different isoforms exist for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for CTSE	CTSE: May have a role in immune function. Probably involved in the processing of antigenic peptides during MHC class II-mediated antigen presentation. May play a role in activation-induced lymphocyte depletion in the thymus, and in neuronal degeneration and glial cell activation in the brain. Belongs to the peptidase A1 family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Protease; EC 3.4.23.34 Chromosomal Location of Human Ortholog: 1q31 Cellular Component: endosome Molecular Function: protein homodimerization activity; aspartic-type endopeptidase activity Biological Process: protein autoprocessing; digestion; antigen processing and presentation of exogenous peptide antigen via MHC class II; proteolysis
Research Articles on CTSE	**1.** data demonstrate that CatE contributes to normal growth and development of mammary glands through proper trafficking and secretion of Wnt5a
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