Cathepsin E Blocking Peptide – The purity is >90%,tested by HPLC and MS. 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	CATE; CATE_HUMAN; Cathepsin E; Cathepsin E form II; CTSE; Erythrocyte membrane aspartic proteinase; Slow moving proteinase
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	Cathepsin E peptide (MBS9626420) is used for blocking the activity of Cathepsin E antibody (MBS9607707)
Molecular Weight	39,553 Da
OMIM	116890
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for CTSE blocking peptide	Blocking/Control
Related Product Information for CTSE blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
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.
Searchable Terms for CTSE purchase	MBS9626420 is a blocking peptide targeting CTSE. Also known as Cathepsin E Blocking Peptide.

ADDITIONAL DETAILS

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

NCBI GI #	955471905
NCBI GeneID	1510
NCBI Accession #	NP_001304260.1
UniProt Primary Accession #	P14091
UniProt Secondary Accession #	Q5TZ01; Q5TZ02; Q9NY58; Q9UCE3; Q9UCE4
UniProt Related Accession #	P14091

GenBank Nucleotide #	NM_001317331.1
NCBI Official Full Name	cathepsin E isoform c
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
NCBI Summary for CTSE	This gene encodes a member of the A1 family of peptidases. Alternative splicing of this gene results in multiple transcript variants. At least one of these variants encodes a preproprotein that is proteolytically processed to generate the mature enzyme. This enzyme, an aspartic endopeptidase, may be involved in antigen processing and the maturation of secretory proteins. Elevated expression of this gene has been observed in neurodegeneration. [provided by RefSeq, Nov 2015]
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: EC 3.4.23.34; Protease 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.** Cathepsin E, mitochondrial fission, and caspase activation/apoptosis are linked in the pathogenesis of pulmonary emphysema.
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