Cathepsin E (CTSE) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Cathepsin E (Ctse), Recombinant Protein
Full Product Name	Recombinant Mouse Cathepsin E Protein
Product Gene Name	Ctse recombinant protein
Product Synonym Names	Cathepsin E; ctse
Host	Human Cells
Form/Format	Lyophilized from a 0.2 mum filtered solution of 20mM PB, 150mM NaCl, pH 7.4.
Purity/Purification	>95% as determined by reducing SDS-PAGE.
Preparation and Storage	Lyophilized protein should be stored at < -20 degree C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7 degree C for 2-7 days. Aliquots of reconstituted samples are stable at < -20 degree C for 3 months.
Molecular Weight	Molecular Mass: 37.0kDa Actual Protein Molecular Mass: 42kDa
3D Structure	ModBase 3D Structure for P70269
Species	Mouse
Endotoxin	<1.0 EU per mug as determined by LAL test.
Fragment	Met 1-Pro 397
Fusion Tag	C-6His
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Ctse recombinant protein	Protein Construction: Recombinant Mouse Cathepsin E is produced by our Mammalian expression system and the target gene encoding Ser60-Pro397 is expressed with a 6His tag at the C-terminus. Background: Cathepsin E is encoded by the ctse gene, exists in the homodimer forms, belongs to the peptidase A1 family. Cathepsin E high expressed in the stomach, clara cells and alveolar macrophages of lung, brain microglia, spleen and activated B-lymphocytes. Cathepsin E may involve in the processing of antigenic peptides during MHC class II-mediated antigen presentation, play a role in activation-induced lymphocyte depletion in the thymus, and in neuronal degeneration and glial cell activation in the brain.
Other Notes	Small volumes of Ctse 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 Ctse purchase	MBS2556769 is a recombinant protein targeting Ctse. Also known as Recombinant Mouse Cathepsin E Protein. Host: Human Cells.

ADDITIONAL DETAILS

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

NCBI GI #	166235886
NCBI GeneID	13034
NCBI Accession #	NP_031825.2

UniProt Primary Accession #	P70269
UniProt Secondary Accession #	O35647; Q3UKT5; Q4FK00
UniProt Related Accession #	P70269
GenBank Nucleotide #	NM_007799.3
NCBI Official Full Name	cathepsin E preproprotein
NCBI Official Synonym Full Names	cathepsin E
NCBI Official Symbol	Ctse
NCBI Official Synonym Symbols	CE; CatE; A430072O03Rik; C920004C08Rik
UniProt Protein Name	Cathepsin E
Protein Family	Cathepsin
UniProt Gene Name	Ctse
NCBI Protein Information	cathepsin E
NCBI Summary for Ctse	This gene encodes a member of the peptidase A1 family of aspartate proteases and preproprotein that is proteolytically processed to generate a mature protein product. The encoded protein may be involved in antigen processing and the maturation of secretory proteins. Elevated expression of this gene has been observed in neurodegeneration. Homozygous knockout mice for this gene exhibit lysosomal storage disorder, impaired autophagy, mitochondrial abnormalities, dermatitis, and reduced weight gain in an obesity model. [provided by RefSeq, Aug 2015]
UniProt Comments for 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.
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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