

Recombinant Human CTSE, His-tagged

Cat. No. CTSE-255H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Cathepsin E is produced with our mammalian expression system in human cells. The target protein is expressed with sequence (Ser20-Pro396) of Human CTSE fused with a polyhistidine tag at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	20-396 a.a.
Description	Cathepsin E (CTSE) is a gastric aspartyl protease that functions as a disulfide-linked homodimer. It is a member of the Peptidase C1 family, and has a specificity similar to that of Pepsin A and Cathepsin D. CTSE is localized to the endoplasmic reticulum and Golgi apparatus, while the mature enzyme is localized to the endosome. It is expressed abundantly in the stomach, the Clara cells of the lung and activated B-lymphocytes, and at lower levels in lymph nodes, skin and spleen. CTSE is an intracellular proteinase that have a role in immune function, activation-induced lymphocyte depletion in the thymus, neuronal degeneration and glial cell activation in the brain. Furthermore, it probably involved in the processing of antigenic peptides during MHC class II-mediated antigen presentation.
Form	Lyophilized from a 0.2 µM filtered solution of 20mM MES, 150mM NaCl, pH 5.5.
AA Sequence	SLHRVPLRRHPSLKKKLRARSQLSEFWKSHNLDMIQFTESCSDQSAKEPLINYLD MEYFGTISIGSPPQNFTVI FDTGSSNLWVPSVYCTSPACKTHSRFQPSQSSTYSQP

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GQSFSIQYGTGSLSGIIGADQVSVEGLTVVGQQFGESV TEPGQTFVDAEFDGILGLG
YPSLAVGGVTPVFDNMMAQNLVDLPMFSVYMSSNPEGGAGSELIFGGYDHSFSG
S LNWVPVTKQAYWQIALDNIQVGGTVMFCSEGCQAIVDTGTSLITGPSDKIKQLQNA
IGAAPVDGEYAVECANLNV MPDVTFTINGVPYTLSPYATLLDFVDGMQFCSSGFQ
GLDIHPPAGPLWILGDVFIRQFYSVFDRGNRVGLAPA VPVDHHHHHHH

Endotoxin	Less than 0.1 ng/μg (1 IEU/μg).
Purity	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
Storage	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μg/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

GENE INFORMATION

Gene Name	CTSE cathepsin E [Homo sapiens]
Official Symbol	CTSE
Synonyms	CTSE; cathepsin E; slow-moving proteinase; erythrocyte membrane aspartic proteinase; CATE;
Gene ID	1510
mRNA Refseq	NM_001910

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Protein Refseq	NP_001901
MIM	116890
UniProt ID	P14091
Chromosome Location	1q32.1
Pathway	Lysosome, organism-specific biosystem; Lysosome, conserved biosystem;
Function	aspartic-type endopeptidase activity; peptidase activity;

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