

Recombinant Human CTSE

Cat. No. CTSE-26489TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length mature Human Cathepsin E, isoform 1 with N terminal proprietary tag, 67.8kDa.
Species	Human
Source	Wheat Germ
ProteinLength	379 amino acids
Description	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.
Molecular Weight	67.800kDa inclusive of tags
Tissue specificity	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. Not expressed in resting B-lymphocytes.

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Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	QGS LHRVPLRRHPTLKKLRARSQ LSEFWKSHNLDMIQFT ESCSMDQSAKEPLINY LDMEYFGTISIGSPPQNFTVIFDT GSSNLWVPSVYCTSPACKTHSRFQPSQSSTYSQ PGQSFSI QYGTGSLSGIIGADQVSVEGLTVVGQQFGESVTEPGQTLV DAEFDGILG LGYP SLAVGGVTPVFDNMMAQN LVDLPMFSV YMSSNPEGGAGSELIFGGYDHS HF SGSLNWWPVTKQAYWQ IALDNIQVGGTVMFCSEGCQAIVDTGTSLITGPSDKIKQL QNAIGAAPVDGEYAVECANLNVMPDVTFTINGVPYTL SPT AYTL LDFVDGMQFCSS GFQGLDIHPPAGPLWILGDVFIRQ FYSVFDRGN NRVGLAPAVP
Sequence Similarities	Belongs to the peptidase A1 family.

GENE INFORMATION

Gene Name	CTSE cathepsin E [Homo sapiens]
Official Symbol	CTSE
Synonyms	CTSE; cathepsin E;
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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