

Recombinant Human cathepsin E, His-tagged

Cat. No. CTSE-489H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CTSE, 57-363aa Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	57-363 a.a.
Description	<p>CTSE is a gastric aspartyl protease that functions as a disulfide-linked homodimer. CTSE, 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. Recombinant human CTSE protein, fused to His-tag at N-terminus, was expressed in E.coli.</p>
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
Molecular Mass	35.4 kDa (330aa)
AA Sequence	MGSSHHHHHH SGLVPRGSH MGSTESCSMD QSAKEPLINY LDMEYFGTIS IGSPQNFTV IFDTGSSNLW VPSVYCTSPA CKTHSRFQPS QSSTYSQPGQ

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SFSIQYGTGS LSGIIGADQV SVEGLTVVGQ QFGESVTEPG QTFVDAEFDG
ILGLGYPSLA VGGVTPVFDN MMAQNLVDLP MFSVYMSSNP EGGAGSELIF
GGYDHSHFSG SLNWVPVTKQ AYWQIALDNM LWSVPTLTSC RMSPSPLTES
PIPSAQLPTP YWTSWMECSS AAVAFKDLTS TLQLGPSGSW GMSSFDSFTQ
SLTVGITVWD WPQQSPKEGP CVCACLSDRP

Purity >85% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/ml (determined by Bradford assay)

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

Protein Refseq NP_001901

MIM 116890

UniProt ID P14091

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Chromosome Location	1q32.1
Pathway	Lysosome, organism-specific biosystem; Lysosome, conserved biosystem;
Function	aspartic-type endopeptidase activity; peptidase activity;

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