

Recombinant Human CTSE, GST-tagged

Cat. No. CTSE-11685H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human CTSE protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.

Species Human

Source E.coli

ProteinLength 108-275a.a.

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.

Storage The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

Storage Buffer 1M PBS (58mM Na₂HPO₄, 17mM NaH₂PO₄, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

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

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