

Recombinant Human CTSL1, GST-tagged

Cat. No. CTSL1-11690H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CTSL1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-333a.a.
Description	The protein encoded by this gene is a lysosomal cysteine proteinase that plays a major role in intracellular protein catabolism. Its substrates include collagen and elastin, as well as alpha-1 protease inhibitor, a major controlling element of neutrophil elastase activity. The encoded protein has been implicated in several pathologic processes, including myofibril necrosis in myopathies and in myocardial ischemia, and in the renal tubular response to proteinuria. This protein, which is a member of the peptidase C1 family, is a dimer composed of disulfide-linked heavy and light chains, both produced from a single protein precursor. Multiple alternatively spliced transcript variants have been found 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 Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

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GENE INFORMATION

Gene Name	CTSL1 cathepsin L1 [Homo sapiens]
Official Symbol	CTSL1
Synonyms	CTSL1; cathepsin L1; cathepsin L , CTSL; FLJ31037; cathepsin L; major excreted protein; MEP; CATL; CTSL;
Gene ID	1514
mRNA Refseq	NM_001257971
Protein Refseq	NP_001244900
MIM	116880
UniProt ID	P07711
Chromosome Location	9q21.33
Pathway	Antigen processing and presentation, organism-specific biosystem; Antigen processing and presentation, conserved biosystem; Immune System, organism-specific biosystem; Innate Immune System, organism-specific biosystem; Lysosome, organism-specific biosystem; Lysosome, conserved biosystem; Phagosome, organism-specific biosystem;
Function	cysteine-type endopeptidase activity; cysteine-type endopeptidase activity; cysteine-type peptidase activity; histone binding; peptidase activity; protein binding;

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