

Active Recombinant Human CTSL Protein, His-tagged

Cat. No. CTSL1-405H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CTSL (Glu113-Val333 & Ala114-Val333) protein with His tag at C-terminal was expressed in mouse myeloma cell line.
Species	Human
Source	Mammalian Cells
ProteinLength	113-333;114-333 a.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.
Bio-activity	Measured by its ability to cleave the fluorogenic peptide substrate Z-LR-AMC. The specific activity is >25,000 pmol/min/μg.
Molecular Mass	26 kDa
N-terminal Sequence	Glu113 & Ala114

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Analysis	
Endotoxin	<1.0 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	Avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 centigrade as supplied. 3 months, -20 to -70 centigrade under sterile conditions after opening.
Storage Buffer	Supplied as a 0.2 µm filtered solution in Sodium Acetate and NaCl.
GENE INFORMATION	
Gene Name	CTSL cathepsin L [Homo sapiens (human)]
Official Symbol	CTSL
Synonyms	CTSL; cathepsin L; MEP; CATL; CTSL1; cathepsin L1; major excreted protein; EC 3.4.22.15
Gene ID	1514
mRNA Refseq	NM_145918
Protein Refseq	NP_666023
MIM	116880
UniProt ID	P07711

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