

# Recombinant Full Length Human CTSL Protein, GST-tagged

Cat. No. CTSL-2357HF Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human CTSL full-length ORF ( AAH12612.1, 1 a.a. - 333 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	333 amino acids
<b>Description</b>	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. [provided by RefSeq, Apr 2012]
<b>Molecular Mass</b>	62.37 kDa
<b>AA Sequence</b>	MNPTLILAAFCLGIASATLTFDHSLEAQWTKWKAMHNRLYGMNEEGWRRRAVWEKN VKMIELHNQEYREGKHSFTMAMNAFGDMTSEEFRQVMNGFQNRKPRKGVFQEPL FYEAPRSVDWREKGYVTPVKNQGQCGSCWAFSATGALEGQMFRKTGRLISLSEQN LVDCSGPQGNEGCNGGLMDYAFQYVQDNGGLDSEESYPYEATEESCKYNPKYSV

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ANDTGFVDIPKQEKALMKAVATVGPISVAIDAGHESFLFYKEGIYFEPDCSSEDMDH  
 GVLVVGYGFEFESTESDNNKYWLVKNSWGEEWGMGGYVKMAKDRRNHCGIASAASY  
 PTV

<b>Applications</b>	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
<b>Notes</b>	Best use within three months from the date of receipt of this protein.
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

<b>Gene Name</b>	CTSL cathepsin L [ Homo sapiens (human) ]
<b>Official Symbol</b>	CTSL
<b>Synonyms</b>	CTSL1; cathepsin L1; cathepsin L , CTSL; FLJ31037; cathepsin L; major excreted protein; MEP; CATL; CTSL;
<b>Gene ID</b>	1514
<b>mRNA Refseq</b>	NM_001257971
<b>Protein Refseq</b>	NP_001244900
<b>MIM</b>	116880

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UniProt ID

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