

## Recombinant Human CTSL1, His-tagged

**Cat. No.** CTSL1-26491TH    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length protein with 6XHis-tag on its N-terminus
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	<p>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. At least two transcript variants encoding the same protein have been found for this gene.</p>
<b>Conjugation</b>	HIS
<b>Biological activity</b>	Specific Activity: 6000 units/mg protein. One unit will hydrolyze one nmol Z-Phe-Arg-AFC substrate per minute at 37°C in 400 mM Sodium Acetate, pH 5.5, with 4 mM EDTA and 10 mM DTT.
<b>Form</b>	Lyophilised:With dH2O to 0.1 – 1 mg/ml
<b>Purity</b>	>90% by SDS-PAGE

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Storage buffer</b>	Preservative: None Constituents: 50mM HEPES, pH 4.0
<b>Storage</b>	Store at -70°C
<b>Sequence Similarities</b>	Belongs to the peptidase C1 family.
<b>Full Length</b>	Full L.

## GENE INFORMATION

<b>Gene Name</b>	CTSL1 cathepsin L1 [ Homo sapiens ]
<b>Official Symbol</b>	CTSL1
<b>Synonyms</b>	CTSL1; cathepsin L1; cathepsin L , CTSL; FLJ31037;
<b>Gene ID</b>	1514
<b>mRNA Refseq</b>	NM_001912
<b>Protein Refseq</b>	NP_001903
<b>MIM</b>	116880
<b>Uniprot ID</b>	P07711
<b>Chromosome Location</b>	9q21.33
<b>Pathway</b>	Antigen processing and presentation, organism-specific biosystem; Antigen processing and presentation, conserved biosystem; Lysosome, organism-specific

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



biosystem; Lysosome, conserved biosystem; Phagosome, organism-specific biosystem;

**Function**

cysteine-type endopeptidase activity; histone binding; peptidase activity; protein binding;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA