

Recombinant Human CTSL1, His-tagged

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

SPECIFICATION

Product Overview	Recombinant full length protein with 6XHis-tag on its N-terminus
Species	Human
Source	E.coli
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. At least two transcript variants encoding the same protein have been found for this gene.
Conjugation	HIS
Biological activity	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.
Form	Lyophilised:With dH2O to 0.1 – 1 mg/ml
Purity	>90% by SDS-PAGE

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

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

GENE INFORMATION

Gene Name	CTSL1 cathepsin L1 [Homo sapiens]
Official Symbol	CTSL1
Synonyms	CTSL1; cathepsin L1; cathepsin L , CTSL; FLJ31037;
Gene ID	1514
mRNA Refseq	NM_001912
Protein Refseq	NP_001903
MIM	116880
Uniprot ID	P07711
Chromosome Location	9q21.33
Pathway	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  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  Fax: 1-631-938-8127

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