

Native Human Cathepsin L1

Cat. No. CTSL1-1859H Lot. No. (See product label)

SPECIFICATION

Product Overview	Native Human CTSL1 was expressed in Human Liver.
Species	Human
Source	Human Liver
Description	The most powerful of the lysosomal proteases. It has a higher specific activity than cathepsin B and H in the degradation of a variety of physiological protein substrates. The level of CTSL1 is a strong predictor of relapse and survival following treatment of a primary breast tumor.
Form	Frozen liquid in a buffer of 0.02 M Malonate + 0.4M NaCl + 1 mM EDTA, pH 5.5.
Molecular Weight	25-29 kDa
Purity	> 95% by SDS-PAGE
Specific Activity	≥ 1 unit per mg protein. One unit is defined as the amount of enzyme that hydrolyzes one micromole of Z-Phe-Arg-AFC per minute at 25°C using 400 mM Na Acetate, pH 5.5 with 4 mM EDTA and 8 mM DTT as the activation buffer in the presence of Brij.
Concentration	1.0 mg/ml
Storage	Product is stable at -80°C for 3 years.

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OfficialSymbol	CTSL1
Pathways	Lysosome; Antigen processing and presentation; Phagosome; Rheumatoid arthritis
GENE INFORMATION	
Gene Name	CTSL1cathepsin L1 [Homo sapiens]
Synonyms	CTSL1; cathepsin L1; MEP; CATL;CTSL; FLJ31037; EC 3.4.22.15; OTTHUMP00000021601; OTTHUMP00000021602;OTTHUMP00000063566; Major excreted protein; major excreted protein; CathepsinL1; Cathepsin L1 heavy chain; Cathepsin L1 light chain
Gene ID	1514
mRNA Refseq	NM_001912
Protein Refseq	NP_001903
MIM	116880
UniProt ID	P07711
Chromosome Location	9q21.33
Function	cysteine-type endopeptidase activity; peptidase activity; histone binding; protein binding

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