

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 mostpowerful of the lysosomal proteases. It has a higher specific activity thancathepsin B and H in the degradation of a variety of physiological proteinsubstrates. The level of CTSL1 is a strongpredictor of relapse and survival following treatment of a primary breast tumor.
Form	Frozenliquid 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 unitper mg protein. One unit is defined as the amount of enzyme that hydrolyzes onemicromole of Z-Phe-Arg-AFC per minute at 25°C using 400 mM Na Acetate, pH 5.5with 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°Cfor 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

PDBrendering based
on 1cjl.

