

Active Native Human Cathepsin L

Cat. No. CTSL-191H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

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 cathepsin L is a strong predictor of relapse and survival following treatment of a primary breast tumor.
Form	Frozen
Bio-activity	Greater than or equal to 0.5 U/mg. One unit is defined as the amount of enzyme which hydrolyzes one umole of Z-Phe-Arg-AFC per minute at 25°C in 400 mM Na acetate, pH 5.5 with 4 mM EDTA and 8 mM DTT.
Molecular Mass	25,000-29,000
Usage	For research use or for use in further manufacturing.
Quality Control Test	Shown to be non reactive for HBsAg, anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2 by FDA approved tests.
Stability	>1 year

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Storage	<=>
Storage Buffer	20 mM malonate buffer, pH 5.5, with 1 mM EDTA, and 400 mM NaCl
GENE INFORMATION	
Gene Name	CTSL cathepsin L [Homo sapiens]
Official Symbol	CTSL
Synonyms	MEP; CATL; CTSL1; cathepsin L1; major excreted protein
Gene ID	1514
mRNA Refseq	NM_001257971
Protein Refseq	NP_001244900
MIM	116880
UniProt ID	P07711
Chromosome Location	9q21.33
Pathway	Adaptive Immune System, organism-specific biosystem; Antigen processing and presentation, conserved biosystem
Function	collagen binding; cysteine-type endopeptidase activity; cysteine-type peptidase activity

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