

Active Native Human Cathepsin L

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

SPECIFICATION

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
Storage	<=>

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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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