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Datasheet for ABIN1691578

**Cathepsin L Protein (AA 18-334) (His tag)**

## Overview

Quantity:	50 µg
Target:	Cathepsin L (CTSL1)
Protein Characteristics:	AA 18-334
Origin:	Mouse
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Cathepsin L protein is labelled with His tag.

## Product Details

Purpose:	Recombinant Mouse Cathepsin L/CTSL (C-6His)
Sequence:	TPKFDQTFSA EWHQWKSTHR RLYGTNEEEW RRAIWEKNMR MIQLHNGEYS NGQHGFSEMEM NAFGDMTNEE FRQVVNGYRH QKHKKGRFLQ EPLMLKIPKS VDWRKGCVT PVKNQGQCGS CWAFSASGCL EGQMFLKTGK LISLSEQNLV DCSHAQGNQG CNGGLMDFAF QYIKENGGLD SEESYPYEAQ DGSCKYRAEF AVANDTGFVD IPQKEKALMK AVATVGPISV AMDASHPSLQ FYSSGIYYEP NCSSKNLDHG VLLVGYGYEG TDSNKNKYWL VKNSWGSEWG MEGYIKIAKD RDNHCGLATA ASYPVVNDH HHHHH
Characteristics:	Recombinant Mouse Cathepsin L/Ctsl1 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Thr18-Asn334) of Mouse Cathepsin L fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered

## Product Details

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Endotoxin Level: Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test

## Target Details

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Target: Cathepsin L (CTSL1)

Alternative Name: Cathepsin L ([CTSL1 Products](#))

Sub Type: Fusionprotein

Background: Mouse Cathepsin L is a lysosomal cysteine proteinase which is a member of the peptidase C1 family. This protein is a dimer composed of disulfide-linked heavy and light chains, both produced from a single protein precursor. Cathepsin L 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. Cathepsin L has been implicated in several pathologic processes, including myofibril necrosis in myopathies and in myocardial ischemia, and in the renal tubular response to proteinuria.

Alternative Names: Cathepsin L1, Major excreted protein, p39 cysteine proteinase, Ctsl1,

Molecular Weight: 36.8 kDa

UniProt: [P06797](#)

Pathways: [Activation of Innate immune Response](#), [Toll-Like Receptors Cascades](#)

## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Reconstitution: It is not recommended to reconstitute to a concentration less than 100 μg/mL.  
Dissolve the lyophilized protein in ddH<sub>2</sub>O.  
Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Buffer: Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.

Handling Advice: Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

Storage: 4 °C/-20 °C/-80 °C

Storage Comment: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.  
Reconstituted protein solution can be stored at 4-7°C for 2-7 days.

## Handling

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Aliquots of reconstituted samples are stable at  $< -20^{\circ}\text{C}$  for 3 months.

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Expiry Date: 6 months