

Recombinant Mouse Ctsl Protein, His-tagged

Cat. No. Ctsl-38M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse CTSL, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Mouse
Source	Insect Cells
Description	CTSL, also known as cathepsin L1, is a lysosomal cysteine protease expressed in most eukaryotic cells. It plays a major role in intracellular protein catabolism and is potent in degrading collagen, laminin, elastin, as well as alpha-1 protease inhibitor and other structural proteins of basement membranes.
Form	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
Molecular Mass	36.8kDa (325aa)40-57KDa (SDS-PAGE under reducing conditions.)
AA Sequence	TPKFDQTFSA EWHQWKSTHR RLYGTNEEEW RRAIWEKNMR MIQLHNGEYS NGQHGFSEMEM NAFGDMTNEE FRQVVNGYRH QKHKKGRLFQEPLMLKIPKS VDWREKGCVT PVKNQGQCGS CWAFSASGCL EGQMFLKTGK LISLSEQNLV DCSHAQGNQG CNGGLMDFAF QYIKENGGLDSEESYPYEAQ DGSCKYRAEF AVANDTGFDV IPQQEALMK AVATVGPIV AMDASHPSLQ FYSSGIYYEP NCSSKNLDHG VLLVGYGEGTDSNKNKYWL VKNSWGSEWG MEGYIKIAKD RDNHCGLATA ASYPVVNLEH HHHHH
Endotoxin	< 1.0 EU per 1 microgram of protein (determined by LAL method)

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Purity	>90% by SDS - PAGE
Storage	Can be stored at +4centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20Centigrade or -70Centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.25mg/ml (determined by Absorbance at 280nm)
GENE INFORMATION	
Gene Name	Ctsl cathepsin L [Mus musculus]
Official Symbol	Ctsl
Synonyms	Cathepsin L1; CTSL; CatL; Ctsl1; fs; MEP; nkt
Gene ID	13039
mRNA Refseq	NM_009984
Protein Refseq	NP_034114
MIM	
UniProt ID	P06797
Chromosome Location	13 B3; 13 33.26 cM
Pathway	Antigen processing and presentation, organism-specific biosystem; Endochondral Ossification, organism-specific biosystem; PodNet: protein-protein interactions in the podocyte, organism-specific biosystem

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Function

aminopeptidase activity; cysteine-type carboxypeptidase activity; histone binding

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