Recombinant Mouse Ctsl Protein, His-tagged

Cat. No. Ctsl-7187M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Ctsl Protein with a His tag.
Species	Mouse
ProteinLength	18-334
Description	This gene encodes a member of the peptidase C1 (papain) family of cysteine proteases. The encoded preproprotein is proteolytically processed to generate multiple protein products. These products include the activation peptide and the cathepsin L1 heavy and light chains. The mature enzyme appears to be important in embryonic development through its processing of histone H3 and may play a role in disease progression in a model of kidney disease. Homozygous knockout mice for this gene exhibit hair loss, skin thickening, bone and heart defects, and enhanced susceptibility to bacterial infection. A pseudogene of this gene has been identified in the genome.
Form	Liquid
Molecular Mass	36.8 kDa
AA Sequence	TPKFDQTFSAEWHQWKSTHRRLYGTNEEEWRRAIWEKNMRMIQLHNGEYSNGQH GFSMEMNAFGDMTNEEFRQVVNGYRHQKHKKGRLFQEPLMLKIPKSVDWREKGC VTPVKNQGQCGSCWAFSASGCLEGQMFLKTGKLISLSEQNLVDCSHAQGNQGCN GGLMDFAFQYIKENGGLDSEESYPYEAKDGSCKYRAEFAVANDTGFVDIPQQEKAL MKAVATVGPISVAMDASHPSLQFYSSGIYYEPNCSSKNLDHGVLLVGYGYEGTDSN

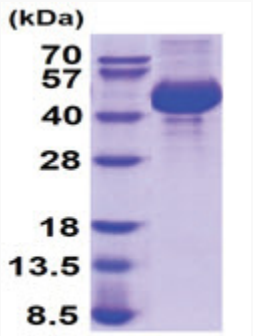
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	KNKYWLVKNSWGSEWGMEGYIKIAKDRDNHCGLATAASYPVVNLEHHHHHH
Endotoxin	< 1.0 EU/μg of protein (determined by LAL method)
Purity	> 90 % by SDS-PAGE
Stability	Shelf life: one year from despatch.
Storage	Store undiluted at 2-8 centigrade for one week or (in aliquots) at -20 to -80 centigrade for longer. Avoid repeated freezing and thawing.
Concentration	0.25 mg/mL (determined by absorbance at 280nm)
Storage Buffer	Phosphate Buffered Saline (pH 7.4) containing 10 % glycerol.

GENE INFORMATION

Gene Name	Ctsl cathepsin L [Mus musculus (house mouse)]
Official Symbol	Ctsl
Synonyms	Ctsl; cathepsin L; ME; fs; MEP; nkt; CatL; Ctsl1; 1190035F06Rik; procathepsin L; cathepsin L1; Cat L; major excreted protein; p39 cysteine proteinase; EC 3.4.22.15
Gene ID	13039
mRNA Refseq	NM_009984
Protein Refseq	NP_034114
UniProt ID	P06797

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SDS-PAGE	 15% SDS-PAGE (3ug)

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