
Product Data Sheet

Product Name: CTSL Mouse
 Cat. No.: GP21508
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Cathepsin L1; Cathepsin L; Major excreted protein; MEP; p39cysteine proteinase.		
Amino Acid Sequence	TPKFDQTFSAEWHQWKSTHR RLYGTNEEEW RRAIWEKNMR MIQLHNGEYS NGQHGFSMEM NAFGDMTNEE FRQVVNGYRHQKHKKGRLFQ EPLMLKIPKS VDWREKGCVT PVKNQGQCGS CWAFSASGCL EGQMFLKTGK LISLSEQNLVDCSHAQGNQG CNGGLMDFAF QYIKENGGLD SEESYPYEA DGSCKYRAEF AVANDTGFVD IPQEQKALMKAVATVGPISV AMDASHPSLQ FYSSGIYYEP NCSSKNLDHG VLLVGYGYEG TDSNKNKYWL VKNSWGSEWGMGYIKIAKD RDNHCGLATA ASYPVVNLEH HHHHH.		
Formulation	CTSL protein solution (0.25mg/ml) containing Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

Introduction

Cathepsin-L also known as CTSL is a member of the peptidase C1 family. CTSL, is a dimer composed of disulfide-linked heavy and light chains, both formed from a single protein precursor. Furthermore, CTSL is a lysosomal cysteine proteinase which takes a main part in intracellular protein catabolism. CTSL substrates include collagen and elastin, as well as alpha-1 protease inhibitor, which is the most important controlling element of neutrophil elastase activity. CTSL has been implicated in a number of pathologic processes, including myofibril necrosis in myopathies and in myocardial ischemia, and in the renal tubular response to proteinuria. Multiple alternatively spliced transcript variants have been found for CTSL.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

CTSL Mouse Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 325 amino acids (18-334a.a.) and having a molecular mass of 36.8kDa (Molecular size on SDS-PAGE will appear at approximately 40-57kDa). CTSL is expressed with an 8 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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