
Product Data Sheet

Product Name: CTSL Human
 Cat. No.: GP21507
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Cathepsin L; CTSL1; Cathepsin L1; Major Excreted Protein; MEP; EC 3.4.22.15; CATL; EC 3.4.22.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSTLTFDHS LEAQWTKWKA MHNRLYGMNE EGWRRAVWEK NMKMIELHNQ EYREGKHSFT MAMNAFGDMT SEEFRQVMNG FQNRKPRKGK VFQEPLFYEA PRSVDWREKG YVTPVKNQGQ CGSCWAFSAT GALEGQMFRK TGRLISLSEQ NLVDCSGPQG NEGCGGLMD YAFQYVQDNG GLDSEESYPY EATEESCKYN PKYSVANDTG FVDIPKQEKA LMKAVATVGP ISVAIDAGHE SFLFYKEGIY FEPDCSEDM DHGVLVVGYG FESTESDNNK YWLVKNSWGE EWGMGGYVKM AKDRRNHCGI ASAASYPTV.		
Formulation	CTSL protein solution (1mg/ml) containing 20mM Tris-HCl (pH 8.0) 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). Please avoid freeze thaw cycles.

Background

CTSL Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 339 amino acids (18-333 a.a) and having a molecular mass of 38.3kDa. CTSL is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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