

Recombinant human Cathepsin L protein

Catalog Number: ATGP3536

PRODUCT INFORMATION

Expression system

E.coli

Domain

18-333aa

UniProt No.

P07711

NCBI Accession No.

NP_001244901

Alternative Names

Procathepsin L, Cathepsin L1, Major excreted protein, MEP, CTSL, CTSL1

PRODUCT SPECIFICATION

Molecular Weight

38.3 kDa (339aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Purity

> 85% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

CTSL, also known as cathepsin L1 isoform 1, is a lysosomal cysteine proteinase that 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. The encoded protein has been implicated in several pathologic processes, including myofibril necrosis in myopathies and in myocardial ischemia, and in the renal

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tubular response to proteinuria. This protein, which is a member of the peptidase C1 family, is a dimer composed of disulfide-linked heavy and light chains, both produced from a single protein precursor. Multiple alternatively spliced transcript variants have been found for this gene. Recombinant Human CTSL protein was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

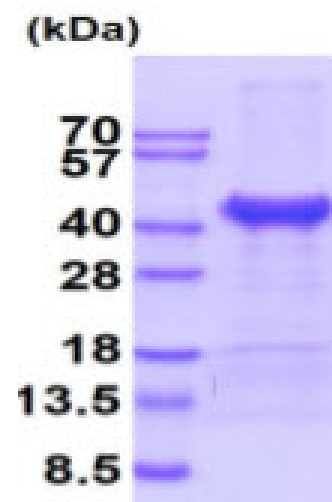
MGSSHHHHHH SSGLVPRGSH MGSTLTFDHS LEAQWTKWKA MHNRLYGMNE EGWRRAVWEK NMKMIELHNQ
EYREGKHSFT MAMNAFGDMT SEEFRQVMNG FQNRKPRKGK VFQEPLFYEA PRSVDWREKG YVTPVKNQGQ
CGSCWAFSAT GALEGQMRK TGRILSLSEQ NLVDCSGPQG NEGCNGGLMD YAFQYVQDNG GLDSEESYPY EATEESCKYN
PKYSVANDTG FVDIPKQEK LMKAVATVGP ISVAIDAGHE SFLFYKEGIY FEPDCSSEDM DHGVLVVGYG FESTESDNNK
YWLKNSWGE EWGMGGYVKM AKDRRNHCGI ASAASYPTV

General References

Bauer Y., et al. (2011) Hypertension. 57(4):795-801
Wei DH., et al. (2013) Int J Mol Med. 31(2):400-6

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)