

AR51809PU-S

Human Cathepsin L1 (18-333, His-tag) - Purified

Alternate names:

CTSL, CTSL1, Cathepsin-L1, MEP, Major excreted protein

Quantity:

0.1 mg

Concentration:

1.0 mg/ml (determined by Bradford assay)

Background:

CTSL, also known as Cathepsin L1 isoform 1 preproprotein, 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 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.

Uniprot ID:

[P07711](#)

NCBI:

[NP_001244901](#)

GenelD:

[1514](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90% by SDS - PAGE

Buffer System: 20 mM Tris-HCl(pH 8.0) containing 10% glycerol.

Description:

Recombinant CTSL, fused to His-tag at N-terminus, was expressed in E.coli.

AA Sequence:

MGSSHHHHH SSGLVPRGSH MGSTLTFDHS LEAQWTKWKA MHNRLYGMNE EGWRRVWEK
NMKMIELHNQ EYREGKHSFT MAMNAFGDMT SEEFQVMNG FQNRKPRGK VFQEPLFYEA
PRSDVWREKG YVTPVKNQGG CGSCWAFSAT GALEGQMFRK TGRLISLSEQ NLVDCSGPQG
NEGCNGGLMD YAFQYVQDNG GLDSEESYPY EATEESCKYN PKYSVANDTG FVDIPKQEKA
LMKAVATVGP ISVAIDAGHE SFLFYKEGIY FEPDCSSEDH DHGVLVVGYG FESTESDNNK
YWLKNSWGE EWGMGGYVKM AKDRRNHCGI ASAASYPTV

Molecular weight: 38.3 kDa (339aa)

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

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

Pictures:

