

CTSL recombinant protein

CTSL, 18-333aa, Human, His tag, E Coli (Denatured)

CATALOG # AAA48904	HOST E Coli	APPLICATIONS SDS-Page
------------------------------	-----------------------	---------------------------------

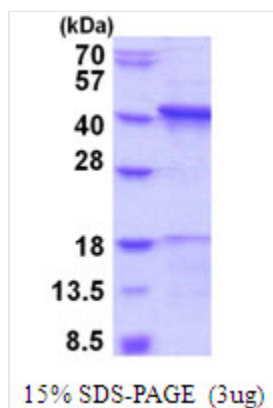
PRODUCT SYNONYMS

CTSL; 18-333aa; Human; His tag; E Coli (Denatured); Cathepsin L1 isoform 1; CATL; CTSL1; MEP; CTSL recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 90% by SDS-PAGE
Form/Format	Liquid. In 20mM Tris-HCl (pH 8.0) containing 10% glycerol.
Concentration	1mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MGSSHHHHH SSGLVPRGSH MGSTLTFDHS LEAQWTKWKA MHNRLYGMNE EGWRRRAVWEK NMKMIELHNQ EYREGKHSFT MAMNAFGDMT SEEFQVMNG FQNRKPRKGK VFQEPLFYEA PRSVDWREKG YVTPVKNQGG CGSCWAFSAT GALEGQMFRR TGRLLSLSEQ NLVDCSGPQG NEGCNGGLMD YAFQYVQDNG GLDSEESYPY EATEESCKYN PKYSVANDTG FVDIPKQEKA LMKAVATVGP ISVAIDAGHE SFLFYKEGIY FEPDCSSEDM DHGVLVVGYG FESTESDNNK YWLVKNSWGE EWGMGGYVKM AKDRRNHCGI ASAASYPTV
Sequence Length	333
Applicable Applications for CTSL recombinant protein	SDS-PAGE
Antigen Species	Human
Tag Information	His-tag
Domain	18-333aa
Preparation and Storage	Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C or -80°C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

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

ADDITIONAL INFORMATION

Related Product Information for CTSL recombinant protein	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. Recombinant CTSL, fused to His-tag at N-terminus, was expressed in E Coli.
Product Categories/Family for CTSL recombinant protein	Neuroscience
References	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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	384081594
NCBI GeneID	1514
NCBI Accession #	NP_001244901
NCBI GenBank Nucleotide #	NM_001257972.1
UniProt Accession #	P07711; Q6IAV1; Q96QJ0
Molecular Weight	38.3kDa (339aa)
NCBI Official Full Name	cathepsin L1 isoform 1 preproprotein
NCBI Official Synonym Full Names	cathepsin L
NCBI Official Symbol	CTSL
NCBI Official Synonym Symbols	MEP; CATL; CTSL1
NCBI Protein Information	cathepsin L1
UniProt Protein Name	Cathepsin L1
UniProt Gene Name	CTSL
UniProt Synonym Gene Names	CTSL1; MEP

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.