

## Product datasheet for **AR51809PU-N**

### Cathepsin L1 (18-333, His-tag) Human Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Cathepsin L1 (18-333, His-tag) human recombinant protein, 0.5 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MGSTLTFDHS LEAQWTKWKA MHNRLYGMNE EGWRRRAVWEK NMKMIELHNQ EYREGKHSFT MAMNAFGDMT SEEFRQVMNG FQNRKPRKGGK VFQEPLFYEA PRSDWREKG YVTPVKNQGG CGSCWAFSAT GALEGQMFRK TGRILSLSEQ NLVDCSGPQG NEGCNGGLMD YAFQYVQDNG GLDSEESYPY EATEESCKYN PKYSVANDTG FVDIPKQEKA LMKAVATVGP ISVAIDAGHE SFLFYKEGIY FEPDCSEDM DHGVLVVGYG FESTESDNNK YWLKNSWGE EWGMGGYVKM AKDRRNHCGI ASAASYPTV
Tag:	His-tag
Predicted MW:	38.3 kDa
Concentration:	lot specific
Purity:	>90% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl (pH 8.0) containing 10% glycerol
Preparation:	Liquid purified protein
Protein Description:	Recombinant CTSL, fused to His-tag at N-terminus, was expressed in E.coli.
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.
Stability:	Shelf life: one year from despatch.
RefSeq:	<a href="#">NP_001244900</a>
Locus ID:	1514
UniProt ID:	<a href="#">P07711</a> , <a href="#">A0A024R276</a>
Cytogenetics:	9q21.33
Synonyms:	CATL; CTSL1; MEP



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**Summary:**

The protein encoded by this gene 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. Additionally, this protein cleaves the S1 subunit of the SARS-CoV-2 spike protein, which is necessary for entry of the virus into the cell. [provided by RefSeq, Aug 2020]

**Protein Families:**

Druggable Genome, Protease

**Protein Pathways:**

Antigen processing and presentation, Lysosome

**Product images:**