

Product datasheet for AR50775PU-S

OriGene Technologies, Inc.

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Cathepsin S (17-331, His-tag) Human Protein

Product data:

Product Type: Recombinant Proteins

Description: Cathepsin S (17-331, His-tag) human recombinant protein, 0.1 mg

Species: Human
Expression Host: E. coli

Expression cDNA Clone

or AA Sequence:

MGSSHHHHHH SSGLVPRGSH MQLHKDPTLD HHWHLWKKTY GKQYKEKNEE AVRRLIWEKN LKFVMLHNLE HSMGMHSYDL GMNHLGDMTS EEVMSLMSSL RVPSQWQRNI TYKSNPNWIL PDSVDWREKG CVTEVKYQGS CGACWAFSAV GALEAQLKLK TGKLVSLSAQ NLVDCSTEKY

GNKGCNGGFM TTAFQYIIDN KGIDSDASYP YKAMDQKCQY DSKYRAATCS KYTELPYGRE DVLKEAVANK GPVSVGVDAR HPSFFLYRSG VYYEPSCTQN VNHGVLVVGY GDLNGKEYWL

VKNSWGHNFG EEGYIRMARN KGNHCGIASF PSYPEI

Tag: His-tag
Predicted MW: 38.1 kDa
Concentration: lot specific

Purity: >85% by SDS - PAGE

Buffer: Presentation State: Purified

State: Liquid purified protein

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

Preparation: Liquid purified protein

Protein Description: Recombinant human CTSS protein, 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: <u>NP 001186668</u>

 Locus ID:
 1520

 UniProt ID:
 P25774

 Cytogenetics:
 1q21.3





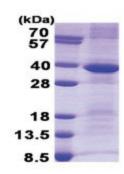
Summary:

The preproprotein encoded by this gene, a member of the peptidase C1 family, is a lysosomal cysteine proteinase that participates in the degradation of antigenic proteins to peptides for presentation on MHC class II molecules. The mature protein cleaves the invariant chain of MHC class II molecules in endolysosomal compartments and enables the formation of antigen-MHC class II complexes and the proper display of extracellular antigenic peptides by MHC-II. The mature protein also functions as an elastase over a broad pH range. When secreted from cells, this protein can remodel components of the extracellular matrix such as elastin, collagen, and fibronectin. This gene is implicated in the pathology of many inflammatory and autoimmune diseases and, given its elastase activity, plays a significant role in some pulmonary diseases. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, May 2020]

Protein Families: Druggable Genome, Protease

Protein Pathways: Antigen processing and presentation, Lysosome

Product images:



15% SDS-PAGE (3ug)