

Product datasheet for TP303143L

OriGene Technologies, Inc.

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Cathepsin L (CTSL) (NM_001912) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human cathepsin L1 (CTSL1), transcript variant 1, 1 mg

Species: Human Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC203143 protein sequence Red=Cloning site Green=Tags(s)

MNPTLILAAFCLGIASATLTFDHSLEAQWTKWKAMHNRLYGMNEEGWRRAVWEKNVKMIELHNQEYREGK HSFTMAMNAFGDMTSEEFRQVMNGFQNRKPRKGKVFQEPLFYEAPRSVDWREKGYVTPVKNQGQCGSCWA FSATGALEGQMFRKTGRLISLSEQNLVDCSGPQGNEGCNGGLMDYAFQYVQDNGGLDSEESYPYEATEES CKYNPKYSVANDTGFVDIPKQEKALMKAVATVGPISVAIDAGHESFLFYKEGIYFEPDCSSEDMDHGVLV

VGYGFESTESDNNKYWLVKNSWGEEWGMGGYVKMAKDRRNHCGIASAASYPTV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK
Predicted MW: 35.8 kDa

Concentration: >0.05 μg/μL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional

chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience

some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling

conditions. Avoid repeated freeze-thaw cycles.

RefSeq: NP 001903

Locus ID: 1514





Cathepsin L (CTSL) (NM_001912) Human Recombinant Protein - TP303143L

UniProt ID: <u>P07711</u>, <u>A0A024R276</u>

RefSeq Size: 1730 Cytogenetics: 9q21.33 RefSeq ORF: 999

Synonyms: CATL; CTSL1; MEP

Summary: The protein encoded by this gene is a lysosomal cysteine proteinase that plays a major role in

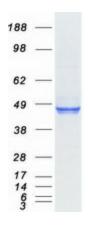
intracellular protein catabolism. Its substrates include collagen and elastin, as well as alpha-1 protease inhibitor, a major controlling element of neutrophil elastase activity. The encoded protein has been implicated in several pathologic processes, including myofibril necrosis in myopathies and in 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:



Coomassie blue staining of purified CTSL protein (Cat# [TP303143]). The protein was produced from HEK293T cells transfected with CTSL cDNA clone (Cat# [RC203143]) using MegaTran 2.0 (Cat# [TT210002]).