

Recombinant Human CTSL Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CTSL-2199H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CTSL1 MS Standard C13 and N15-labeled recombinant protein (NP_001903) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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 may be necessary for entry of SARS-CoV-2 (COVID-19 virus) into the cell.
Molecular Mass	37.5 kDa
AA Sequence	MNPTLILAAFLGLIASATLTFDHSLEAQWTKWKAMHNRLYGMNEEGWRRRAVWEKN VKMIELHNQEYREGKHSFTMAMNAFGDMTSEEFRQVMNGFQNRKPRKGKVFQEPL FYEAPRSVDWREKGYVTPVKNQGGQCGSCWAFSATGALEGQMFRKTGRLISLSEQN LVDCSGPQGNEGCNGGLMDYAFQYVQDNGGLDSEESYPYEATEESCKYNPKYSV

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

ANDTGFVDIPKQEKALMKAVATVGPISVAIDAGHESFLFYKEGIYFEPDCSSEDMDH
 GVLVVGYGFESESDNNKYWLVKNSWGEEWGMGGYVKMAKDRRNHCGIASAASY
 PTVTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name CTSL cathepsin L [Homo sapiens (human)]

Official Symbol CTSL

Synonyms CTSL; cathepsin L; MEP; CATL; CTSL1; procathepsin L; cathepsin L1; major excreted protein; EC 3.4.22.15

Gene ID 1514

mRNA Refseq NM_001912

Protein Refseq NP_001903

MIM 116880

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UniProt ID

P07711

SDS-PAGE



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