

Recombinant Full Length Human CTSL Protein, C-Flag-tagged

Cat. No. CTSL-1680HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CTSL Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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 cleaves the S1 subunit of the SARS-CoV-2 spike protein, which is necessary for entry of the virus into the cell.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	35.8 kDa
AA Sequence	MNPTLILAAFLGLIASATLTDFHSLEAQWTKWKAMHNRLYGMNEEGWRRRAVWEKN VKMIELHNQEYREGK HSFTMAMNAFGDMTSEEFQVMNGFQNRKPRKGKVFQEP LFYEAPRSVDWREKGYVTPVKNQGGQCGSCWA FSATGALEGQMFRKTGRLISLSE

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QNLVDCSGPQGNEGCNGGLMDYAFQYVQDNGGLDSEESYPYEATEES CKYNPKY
SVANDTGFDIPKQEKALMKAVATVGPI SVAIDAGHESFLFYKEGIYFEPDCSSEDMD
HGVLV
VGYGFESTESDNNKYWLKNSWGEEWGMGGYVKMAKDRRNHCGIASAASYPTVT
RTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Protease
Protein Pathways	Antigen processing and presentation, Lysosome
Full Length	Full L.

GENE INFORMATION

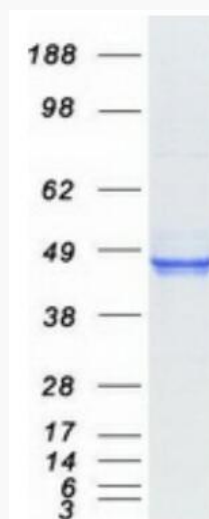
Gene Name	CTSL cathepsin L [Homo sapiens (human)]
Official Symbol	CTSL
Synonyms	MEP; CATL; CTSL1

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Gene ID	1514
mRNA Refseq	NM_001912.5
Protein Refseq	NP_001903.1
MIM	116880
UniProt ID	P07711



Coomassie blue staining of purified CTSL protein.