

## Product datasheet for **TP720657M**

### Cathepsin L (CTSL) (NM\_001912) Human Recombinant Protein

#### Product data:

|                                       |   |
|---------------------------------------|---|
| Product Type:                         | Recombinant Proteins  |
| Description:                          | Purified recombinant protein of Human cathepsin L1 (CTSL1), transcript variant 1                |
| Species:                              | Human   |
| Expression Host:                      | HEK293  |
| Expression cDNA Clone or AA Sequence: | Thr18-Val333  |
| Tag:                                  | C-His   |
| Predicted MW:                         | 36.88 kDa   |
| Purity:                               | >95% as determined by SDS-PAGE and Coomassie blue staining                                      |
| Buffer:                               | Provided lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl             |
| Endotoxin:                            | Endotoxin level is < 0.1 ng/µg of protein (< 1 EU/µg)   |
| Storage:                              | Store at -80°C.   |
| Stability:                            | Stable for at least 3 months from date of receipt under proper storage and handling conditions. |
| RefSeq:                               | <a href="#">NP_001903</a>   |
| Locus ID:                             | 1514  |
| UniProt ID:                           | <a href="#">P07711</a> , <a href="#">A0A024R276</a>   |
| RefSeq Size:                          | 1730  |
| Cytogenetics:                         | 9q21.33   |
| RefSeq ORF:                           | 999   |
| 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