

## Cathepsin L1 (CTSL1) Recombinant Protein | CTSL1 recombinant protein

Recombinant Dog Cathepsin L1 (CTSL1)

CATALOG #  
AAA116643

HOST  
E Coli or Yeast or Baculovirus or Mammalian Cell

### PRODUCT SYNONYMS

Cathepsin L1 (CTSL1); Recombinant Dog Cathepsin L1 (CTSL1); CTSL1 recombinant protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                     |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | E Coli or Yeast or Baculovirus or Mammalian Cell                                                                                                                                                    |
| Purity/Purification     | Greater or equal to 85% purity as determined by SDS-PAGE.                                                                                                                                           |
| Form/Format             | Lyophilized or liquid (Format to be determined during the manufacturing process)                                                                                                                    |
| Sequence Positions      | 118-289, Full length protein                                                                                                                                                                        |
| Sequence                | VDWREKGYVT PVKNQGQCGS CWAFSATGAL EGQMFRTGK LVSLSEQNLV DCSRAQGNeg CNGGLMDNAF RYVKDNGGLD SEESYPYLGR DTETCNYPKE CSAANDTGFV DLPQREKALM KAVATLGPIS VAIDAGHSF QFYKSGIYFD PDCSSKDLDH GVLVVGYGFE GT         |
| Sequence Length         | 172                                                                                                                                                                                                 |
| Species                 | Canis familiaris (Dog) (Canis lupus familiaris)                                                                                                                                                     |
| Preparation and Storage | Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended. |

### ADDITIONAL INFORMATION

#### Related Product Information for CTSL1 recombinant protein

This protein 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. At least two transcript variants encoding the same protein have been found for this gene.

### NCBI AND UNIPROT INFORMATION

|                               |                   |
|-------------------------------|-------------------|
| NCBI GI #                     | 545486346         |
| NCBI GeneID                   | 102156614         |
| NCBI Accession #              | XP_005615836.1    |
| NCBI GenBank Nucleotide #     | XM_005615779.2    |
| UniProt Accession #           | Q9GL24            |
| Molecular Weight              | 37,383 Da         |
| NCBI Official Full Name       | cathepsin L1      |
| NCBI Official Symbol          | LOC102156614      |
| NCBI Official Synonym Symbols | CTSL; CTSV; CTSL1 |

|                            |              |
|----------------------------|--------------|
| NCBI Protein Information   | cathepsin L1 |
| UniProt Protein Name       | Cathepsin L1 |
| UniProt Gene Name          | CTSL         |
| UniProt Synonym Gene Names | CTSL1        |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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