

## Recombinant Mouse Ctss Protein, His-tagged

**Cat. No.** Ctss-69M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | Recombinant mouse Ctss, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.   |
| <b>Species</b>          | Mouse  |
| <b>Source</b>           | Insect Cells   |
| <b>Description</b>      | Ctss, as known as cathepsin S isoform 2, is a lysosomal cysteine protease of the papain family. This protein plays a major role in the processing of the MHC class II-associated invariant chain. It has been implicated in the pathogenesis of several diseases such as Alzheimer's disease and degenerative disorders associated with the cells of the mononuclear phagocytic system. Also, it is less abundant in tissues than Cathepsins B, L and H. The highest levels of this protein have been found in lymph nodes, spleen and phagocytic cells. |
| <b>Form</b>             | Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.   |
| <b>Molecular Mass</b>   | 37.2kDa (328aa)28-40KDa (SDS-PAGE under reducing conditions.)  |
| <b>AA Sequence</b>      | VAMEQLQRDP TLDYHWDLWK KTHEKEYKDK NEEVRRLIW EKNLKFIMIH<br>NLEYSMGMHT YQVGMNDMGD MTNEEISCRM GALRISRQSP KTVTFRSYSN<br>RTLPTVDWR EKGCVTEVKY QGSCGACWAF SAVGALEGQL KLKTGKLISL<br>SAQNLVDCSN EEKYGNKGC GGYMTEAFQY IIDNGGIEAD ASYPYKAMDE<br>KCHYNSKNRA ATCSRYIQLP FGDEDALKEA VATKGPVSVG IDASHSSFFF<br>YKSGVYDDPS CTGNVNHGVL VVGYGTLDGK DYWLVKNSWG LNFGDQGYIR  |

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MARNKNHCG IASYCSYPEI LEHHHHHHDY WLVKNSWGLN FGDQGYIRMA  
RNNKNHCGIA SYCSYPEILE HHHHHH

**Endotoxin** < 1.0 EU per 1 microgram of protein (determined by LAL method)

**Purity** >90% by SDS - PAGE

**Storage** Can be stored at +4centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20Centigrade or -70Centigrade. Avoid repeated freezing and thawing cycles.

**Concentration** 0.5mg/ml (determined by Absorbance at 280nm)

## GENE INFORMATION

**Gene Name** [Ctss cathepsin S \[ Mus musculus \]](#)

**Official Symbol** [Ctss](#)

**Synonyms** CTSS; cathepsin S; Cat S;

**Gene ID** [13040](#)

**mRNA Refseq** [NM\\_021281](#)

**Protein Refseq** [NP\\_067256](#)

**MIM**

**UniProt ID**

**Pathway** Antigen processing and presentation, organism-specific biosystem; Antigen

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processing and presentation, conserved biosystem; Lysosome, organism-specific biosystem; Lysosome, conserved biosystem; Phagosome, organism-specific biosystem; Phagosome, conserved biosystem; Tuberculosis, organism-specific biosystem;

**Function**

cysteine-type endopeptidase activity; cysteine-type peptidase activity; hydrolase activity; peptidase activity;

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