

# Recombinant mouse Cathepsin S protein

Catalog Number: ATGP3349

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

24-340aa

### UniProt No.

O70370

### NCBI Accession No.

NP\_067256

### Alternative Names

Cathepsin S isoform 2, Ctss, Cathepsin S, Cats

## PRODUCT SPECIFICATION

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### Molecular Weight

36.9 kDa (325aa)

### Concentration

0.5mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 90% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

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

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highest levels of this protein have been found in lymph nodes, spleen and phagocytic cells. Recombinant mouse Ctss, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

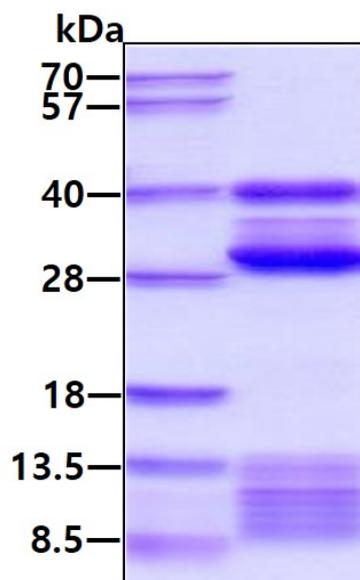
EQLQRDP TLDYHWDLWK KTHEKEYKDK NEEVRRLLIW EKNLKFIMIH NLEYSMG MHT YQVGMNDMGD MTNNEISCRM  
GALRISRQSP KTVTFRSYSN R TLPD TVDWR EKGCVTEVKY QGSCGACWAF SAVGALEGQL KLKTGKLISL SAQNLVDCSN  
EEKYGNKGCG GGYMTEAFQY IIDNGGIEAD ASYPYKAMDE KCHYNSKNRA ATCSRYIQLP FGDEDALKEA VATKGPVSVG  
IDASHSSFFF YKSGVYDDPS CTGNVNHGVL VVG YGTL D GK DYWLVKNSWG LNFGDQGYIR MARNNKNHCG IASYCSYPEI  
<LEHHHHHH>

## General References

Zhao P., et al. (2014) J. Biol. Chem. 289:27215-27234.  
Lafarge JC., et al. (2014) Diabetologia. 57:1674-1683.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.