

# Recombinant human Cathepsin W protein

Catalog Number: ATGP2501

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

22-376aa

### UniProt No.

P56202

### NCBI Accession No.

NP\_001326

### Alternative Names

Cathepsin W preproprotein, CTSW, CatW, Lymphopain

## PRODUCT SPECIFICATION

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### Molecular Weight

42 kDa (378aa)

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### 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

The protein encoded by this gene, a member of the peptidase C1 family, is a cysteine proteinase that may have a specific function in the mechanism or regulation of T-cell cytolytic activity. The encoded protein is found associated with the membrane inside the endoplasmic reticulum of natural killer and cytotoxic T-cells. Expression of this gene is up-regulated by interleukin-2. Recombinant human CTSW protein, fused to His-tag at N-terminus, was expressed in E. coli.

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## Amino acid Sequence

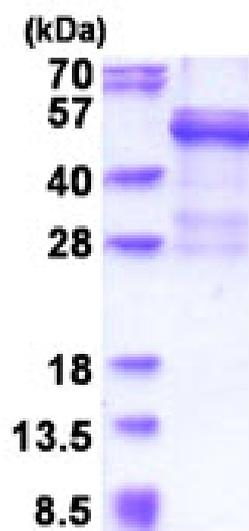
MGSSHHHHHH SSSLVPRGSH MGSIRGPLRA QDLGPQPLEL KEAFKLFQIQ FNRSYLSPEE HAHRLDIFAH NLAQAQRLQE  
EDLGTAIEFGV TPFSDLTEEE FGQLYGYRRA AGGVPSMGRE IRSEEPEESV PFSCDWRKVA GAISPIKDQK NCNCCWAMAA  
AGNIETLWRI SFWDFVDVSV QELLDCGRCG DGCHGGFVWD AFITVLNNSG LASEKDYPFQ GKVRAHRCHP KKYQKVAWIQ  
DFIMLQNNNEH RIAQYLATYG PITVTINMKP LQLYRKGVK ATPTTCDPQL VDHSVLLVGF GSVKSEEGIW AETVSSQSQP  
QPPHPTPYWI LKNSWGAQWG EKGYFRLHRG SNTCGITKFP LTARVQKPDM KPRVSCPP

## General References

Raab AK, Monkemuller K, et al. (2011). *Biol Chem.* 392(12):1167-72.  
Stoeckle C, Gouttefangeas C, et al. (2009). *Exp Hematol.* 37(2):266-75.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)