# **PRODUCT INFORMATION**

Expression system E.coli

**Domain** 17-331aa

**UniProt No.** P25774

NCBI Accession No. NP\_004070

Alternative Names MGC3886, CTSS, CatS, Cathepsin S

# **PRODUCT SPECIFICATION**

Molecular Weight 38.1 kDa (336aa)

**Concentration** 1mg/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

### Description

Cathepsin S, also known as CTSS, is a member of the peptidase C1 family. This protein is a lysosomal cysteine proteinase that may participate in the degradation of antigenic proteins to peptides for presentation on MHC class II molecules. CTSS can function as an elastase over a broad pH range in alveolar macrophages. Recombinant human CTSS protein, fused to His-tag at N-terminus, was expressed in E. coli.

## **Amino acid Sequence**

MGSSHHHHHH SSGLVPRGSH MQLHKDPTLD HHWHLWKKTY GKQYKEKNEE AVRRLIWEKN LKFVMLHNLE

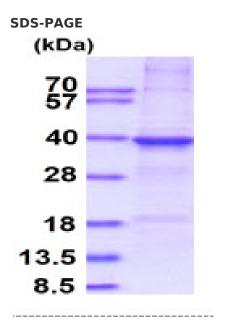


HSMGMHSYDL GMNHLGDMTS EEVMSLMSSL RVPSQWQRNI TYKSNPNWIL PDSVDWREKG CVTEVKYQGS CGACWAFSAV GALEAQLKLK TGKLVSLSAQ NLVDCSTEKY GNKGCNGGFM TTAFQYIIDN KGIDSDASYP YKAMDQKCQY DSKYRAATCS KYTELPYGRE DVLKEAVANK GPVSVGVDAR HPSFFLYRSG VYYEPSCTQN VNHGVLVVGY GDLNGKEYWL VKNSWGHNFG EEGYIRMARN KGNHCGIASF PSYPEI

### **General References**

Inagaki H., et al. (2007) J. Med. Chem. 50:2693-2699 Fengler A., et al. (1998) Protein Eng. 11:1007-1013

# DATA



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

15% SDS-PAGE (3ug)

