

## Recombinant Human CTSS, His-tagged

Cat. No. CTSS-7251H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human CTSS protein, fused to His-tag at N-terminus, was expressed in E.coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>description</b>	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.
<b>source</b>	E. coli
<b>species</b>	Human
<b>tag</b>	His
<b>form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol
<b>molecular mass</b>	38.1 kDa (336aa)
<b>aa sequence</b>	MGSSHHHHHH SSGLVPRGSH MQLHKDPTLD HHWHLWKKTY GKQYKEKNEE AVRRLIWEKN LKFVMLHNL E HSMGMHSYDL GMNHLGDMTS EEVMSLMSSL RVPSQWQRNI TYKSNPNWIL PDSVDWREKG CVTEVKYQGS CGACWAFSAV

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GALEAQLKLIK TGKLVLSAQ NLVDCSTEKY GNKGCNGGFM TTAFAQYIIDN  
 KGIDSDASYP YKAMDQKCQY DSKYRAATCS KYTELPYGRE DVLKEAVANK  
 GPVSVGVDAR HPSFFLYRSG VYYEPSCTQN VNHGVLVVG Y GDLNGKEYWL  
 VKNSWGHNFGE EGYIRMARN KGNHCGIASF PSYPEI

<b>purity</b>	>85% by SDS - PAGE
<b>applications</b>	SDS-PAGE
<b>storage</b>	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
<b>concentration</b>	1 mg/ml

## GENE INFORMATION

<b>gene name</b>	CTSS cathepsin S [ Homo sapiens ]
<b>official symbol</b>	CTSS
<b>synonyms</b>	CTSS; cathepsin S; MGC3886; FLJ50259;
<b>Gene ID</b>	1520
<b>mrna refseq</b>	NM_001199739
<b>protein refseq</b>	NP_001186668
<b>mim</b>	116845
<b>uniprot id</b>	P25774

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**chromosome  
location**

1q21

**pathway**

Adaptive Immune System, organism-specific biosystem; Antigen processing and presentation, organism-specific biosystem; Antigen processing and presentation, conserved biosystem; Antigen processing-Cross presentation, organism-specific biosystem; Class I MHC mediated antigen processing & presentation, organism-specific biosystem; Endosomal/Vacuolar pathway, organism-specific biosystem;

**function**

cysteine-type endopeptidase activity; peptidase activity;

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