

Recombinant Human CTSS, His-tagged

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

SPECIFICATION

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

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

purity >85% by SDS - PAGE

applications SDS-PAGE

storage 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.

concentration 1 mg/ml

GENE INFORMATION

gene name CTSS cathepsin S [Homo sapiens]

official symbol CTSS

synonyms CTSS; cathepsin S; MGC3886; FLJ50259;

Gene ID 1520

mrna refseq NM_001199739

protein refseq NP_001186668

mim 116845

uniprot id 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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