

Full-Length

CTSS (Human) Recombinant Protein (P01)

Catalog # H00001520-P01

Size 10 ug, 25 ug

Applications



Specification

Product Description

Human CTSS full-length ORF (AAH02642, 1 a.a. - 331 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MKRLVCVLLVCSSAVAQLHKDPTLDHHWHLWKKTYGKQYKEKNEEAVRRLIWEKNLKFVMLHNL
EHSMGMHSYDLGMNHLGDMTSEEVMSSLRVPSQWQRNITYKSNPNWILPDSVDWREKGC
VTEVKYQGSCGACWAFSAVGALEAQLKLKTGKLVSLAQNLVDCSTEKYGNKGCNGGFMTTAF
QYIDNKGIDSDASYPYKAMDQKCQYDSKYRAATCSKYTELPYGREDVLKEAVANKGPVSVGVD
RHPSFFLYRSGVYEPSCQTQNVNHGVLVVGYGDLNGKEYWLKNSWGHNFGEEGYIRMARNKG
NHCGIASFPSYPEI

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

62.15

Interspecies Antigen Sequence

Mouse (73); Rat (77)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — CTSS

Entrez GeneID[1520](#)**GeneBank Accession#**[BC002642](#)**Protein Accession#**[AAH02642](#)**Gene Name**

CTSS

Gene Alias

MGC3886

Gene Description

cathepsin S

Omim ID[116845](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

The protein encoded by this gene, a member of the peptidase C1 family, is a lysosomal cysteine proteinase that may participate in the degradation of antigenic proteins to peptides for presentation on MHC class II molecules. The encoded protein can function as an elastase over a broad pH range in alveolar macrophages. Transcript variants utilizing alternative polyadenylation signals exist for this gene. [provided by RefSeq]

Other Designations

OTTHUMP00000032942

Pathway

- [Antigen processing and presentation](#)
- [Lysosome](#)

Disease

- [Alzheimer disease](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Cardiovascular Diseases](#)
- [Cognition](#)
- [Coronary Disease](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Multiple Sclerosis](#)
- [Obesity](#)