

**CTSS, 17-331aa Human, His tag, E.coli**

**Cat.NO.: TP01782**

3th Edition

**Synonyms:**Cathepsin S , MGC3886

**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.

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

**Molecular Weight:**38.1 kDa (336aa)

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMQLHKDPTLDHHWHLWKKTYGKQYKEKNEEAVRRLIWEKNLKFVMLHNLEHSM  
GMHSYDLGMNHLGDMTSEEVMSSLRVPSQWQRNITYKSNPNWILPDSVDWREKGCVTEVKYQGSCGACWA  
FSAVGALEAQLKLKTGKLVSLSAQNLVDCSTEKYGNKGCGNGGFMTTAFQYIIDNKGIDSDASYPYKAMDQKCQYDS  
KYRAATCSKYTELPYGREDVLKEAVANKGPVSVGVGDARHPSFFLYRSGVYYEPSCQTQNVNHGVLVVGYGDLNGKE  
YWLKNSWGHNFGEEGYIRMARNKGNHCGIASFPSYPEI

**Purity:**> 95% by HPLC

**Concentration:**1 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**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.