

Human CellExp Cathepsin S, human recombinant protein
Cathepsin S, CTSS
Catalog # PBV10902r**Specification**

Human CellExp Cathepsin S, human recombinant protein - Product info

Primary Accession	P25774
Concentration	0.2 μ M
Calculated MW	~ 37 kDa kDa

Human CellExp Cathepsin S, human recombinant protein - Additional Info

Gene ID	1520
Gene Symbol	CTSS
Other Names	
Cathepsin S, CTSS	
Gene Source	Human
Source	HEK 293 cells
Assay&Purity	SDS-PAGE; $\geq 95\%$
Assay2&Purity2	SEC-HPLC; $\geq 95\%$
Recombinant	Yes
Results	>1000 mU (1U = 1 μ mole/min/mg) .
Sequence	QLHKDPTLDHHWHLWKKTYGKQYKEKNEEAV RRLIWEKNLKFVMLHNLEHSMGMHSYDLGMN HLGDMTSEEVMSLMSSLRVPSQWQRNITYKSN PNWILPDSVDWREKGCVTEVKYQGSCGACWA FSAVGALEAQLKLKTGKLVSLSAQNLVDCSTEK YGNKGCNCGGFMTTAFQYIIDNKGIDSDASYPYK AMDQKCQYDSKYRAATCSKYTELPYGREDVLK EAVANKGPVSVGVDARHPSFFLYRSGVYYEPS CTQNVNHGVLVVGYGDLNGKEYWLKNSWGH NFGEEGYIRMARNKGNHCGIASFPSYPEIVDHH HHHH

Target/Specificity

Cathepsin S

Format

Liquid

Storage-80°C; A 0.2 μ M filtered solution of 20mM MES, 150mM NaCl, 10% Glycerol, pH 5.5.**Human CellExp Cathepsin S, human recombinant protein - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Human CellExp Cathepsin S, human recombinant protein - Images

Human CellExp Cathepsin S, human recombinant protein - Background

Cathepsin S (CTSS) is a lysosomal cysteine protease of the papain family and may participate in the degradation of antigenic proteins to peptides for presentation on MHC class II molecules. CTSS is synthesized as inactive precursor of 331 amino acids consisting of a 15-aa signal peptide, a propeptide of 99 aa, and a mature polypeptide of 217 aa. It is activated in the lysosomes by a proteolytic cleavage of the propeptide. The deduced amino acid sequence contains only one potential N-glycosylation site located in the propeptide. Compared with the abundant cathepsins B, L and H, cathepsin S shows a restricted tissue distribution, with highest levels in spleen, heart, and lung. In addition, evidences indicated that cathepsin S generates A beta from amyloidogenic fragments of beta APP in the endosomal/lysosomal compartment, and is implicated in the pathogenesis of Alzheimer's disease (AD) and Down Syndrome (DS).

Human CellExp Cathepsin S, human recombinant protein - References

Shi G.-P.,et al.J. Biol. Chem. 267:7258-7262(1992).
Wiederanders B.,et al.J. Biol. Chem. 267:13708-13713(1992).
Wiederanders B.,et al.Submitted (MAY-1995) to the EMBL/GenBank/DDBJ databases.
Shi G.-P.,et al.J. Biol. Chem. 269:11530-11536(1994).
Ebert L.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.