

Recombinant Protein Technical Manual Recombinant Human Cathepsin S/CTSS Protein (His

Tag)(Active) RPES3899

Product Data:

Product SKU: RPES3899	Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P25774

Protein Information:

Molecular Mass:	36.9&25&11.2 kDa
AP Molecular Mass:	37-40&26-28&146 kDa
Tag:	C-His
Bio-activity:	Measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPKPVE- Nval-WRK(Dnp)-NH2 The specific activity is 9063.642 pmol/min/µg.
Purity:	> 90% as determined by reducing SDS-PAGE.
Endotoxin:	< 1.0 EU per μg as determined by the LAL method.
Storage:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping:	This product is provided as liquid. It is shipped at frozen temperature with blue ice. Upon receipt, store it immediately at<-20°C.
Formulation:	Supplied as a 0.2 μm filtered solution of 20mM MES, 150mM NaCl, 10% Glycerol, pH 5.5.
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	
Svnonvms:	Cathepsin S:CTSS:CTSS:MGC3886

Immunogen Information:

Sequence: Gln17-Ile331(pro)&Ser109-Ile331&Gln17-Ser109(Propeptide)

Background:

Cathepsin S is a lysosomal enzyme that belongs to the papain family of cysteine proteases. This protein is expressed by antigen presenting cells including macrophages, B-lymphocytes, dendritic cells and microglia. Moreover, cathepsin S is expressed in some epithelial cells. Compared with the abundant cathepsins B, LandH, 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).