

Recombinant Human Cathepsin S/CTSS Protein (His Tag)(Active)

Catalog No. PKSH033736

Description

Synonyms Cathepsin S;CTSS;MGC3886

Species Human

Expression host Human Cells

Sequence Gln17-Ile331(Pro)&Ser109-Ile331&Gln17-Ser109(Propeptide)

Accession P25774

Mol_Mass 36.9 & 25 & 11.2 kDa

AP Mol Mass 37-40 & 26-28 & 14-16 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.

Properties

Purity > 90 % as determined by reducing SDS-PAGE.
 Endotoxin < 1.0 EU per μg as determined by the LAL method.

Storage 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/gel packs. 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 Not Applicable

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).



SDS-PAGE

