

Cathepsin S Active Protein | Ctss active protein

Recombinant Mouse Cathepsin S Protein

CATALOG #
AAA174601

HOST
Human Cells

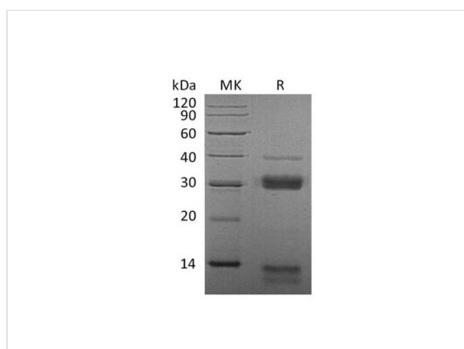
PRODUCT SYNONYMS

Cathepsin S; Recombinant Mouse Cathepsin S Protein; CTSS; Ctss active protein

PRODUCT SPECIFICATIONS

Host	Human Cells
Purity/Purification	>95% as determined by reducing SDS-PAGE.
Form/Format	Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.
Sequence	Val18-Ile3 40
Sequence Length	340
Species	Mouse
Endotoxin	<1.0 EU per µg as determined by LAL test.
Fragment	Met 1-Ile 340
Tag	C-6His
Activity	Measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPKPVENval-WRK (Dnp)-NH ₂ , AnaSpec, Catalog # 27114. The specific activity is >300 pmoles/min/µg. (Activation description: The enzyme achieves its activity under acidic pH)
Reconstitution	We recommend that the vial be centrifuged to opening to bring the contents to the bottom. Do not mix by vortex. It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25mg/mL. Concentration is measured by UV-Vis.
Preparation and Storage	Lyophilized protein should be stored at < -20 degree C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7 degree C for 2-7 days. Aliquots of reconstituted samples are stable at < -20 degree C for 3 months.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for Ctss active protein	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, 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).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	2746723
NCBI GeneID	13040
Molecular Weight	Molecular Mass: 37.5kDa Actual Protein Molecular Mass: 37 & 28-32 & 14kDa
NCBI Official Full Name	cathepsin S
NCBI Official Synonym Full Names	cathepsin S
NCBI Official Symbol	Ctss
NCBI Official Synonym Symbols	Cats
NCBI Protein Information	cathepsin S
UniProt Protein Name	Cathepsin S
UniProt Gene Name	Ctss
UniProt Synonym Gene Names	Cats

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.