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# Recombinant Mouse Cathepsin S/CTSS Protein (His Tag)

Catalog Number: PKSM041202

Note: Centrifuge before opening to ensure complete recovery of vial contents.

## **Description**

**Species** Mouse

Source HEK293 Cells-derived Mouse Cathepsin S/CTSS protein Val18-Ile340, with an C-

terminal His

Calculated MW 37.5 kDa

Observed MW 37&28-32&14 kDa

Accession O70370

**Bio-activity** Not validated for activity

#### **Properties**

> 95 % as determined by reducing SDS-PAGE. **Purity** 

Endotoxin < 1.0 EU per µg of the protein as determined by the LAL method.

Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 Storage

°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of

reconstituted samples are stable at < -20°C for 3 months.

This product is provided as lyophilized powder which is shipped with ice packs. Shipping Lyophilized from a 0.2 µm filtered solution of 20mM PB,150mM NaCl,pH7.4. **Formulation** 

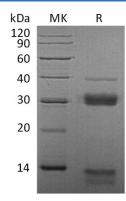
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants

before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

#### Data



### 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).

#### For Research Use Only

Rev. V3.6