



# Recombinant Protein Technical Manual

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

RPEs4953

### Product Data:

**Product SKU:** RPEs4953

**Size:** 10µg

**Species:** Mouse

**Expression host:** Human Cells

**Uniprot:** AAB94925.1

### Protein Information:

**Molecular Mass:** 37.5 kDa

**AP Molecular Mass:** 13&30 kDa

**Tag:** C-6His

**Bio-activity:**

**Purity:** > 95 % as determined by SDS-PAGE

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°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.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of 20mM PB,150mM NaCl,pH7.4.

**Reconstitution:** Please refer to it for detailed information.

**Application:**

**Synonyms:** Cathepsin S; CTSS

## Immunogen Information:

**Sequence:** Val18-Ile340

## 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).