

Datasheet for ABIN7319671

**Cathepsin S Protein (CTSS) (His tag)**[Go to Product page](#)

## Overview

Quantity:	50 µg
Target:	Cathepsin S (CTSS)
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Cathepsin S protein is labelled with His tag.

## Product Details

Purpose:	Recombinant Human Cathepsin S/CTSS Protein (His Tag)(Active)
Sequence:	Gln17-Ile331(pro)&Ser109-Ile331&Gln17-Ser109(Propeptide )
Characteristics:	Recombinant Human Cathepsin S is produced by our Mammalian expression system and the target gene encoding Gln17-Ile331(pro)&Ser109-Ile331&Gln17-Ser109(Propeptide) is expressed with a 6His tag at the C-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH <sub>2</sub> The specific activity is 9063.642 pmol/min/µg.

## Target Details

Target:	Cathepsin S (CTSS)
---------	--------------------

## Target Details

---

Alternative Name: [Cathepsin S/CTSS \(CTSS Products\)](#)

---

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).

Synonym: Cathepsin S, CTSS, CTSS, MGC3886

---

Molecular Weight: 36.9&25&11.2 kDa

---

UniProt: [P25774](#)

---

Pathways: [Activation of Innate immune Response, Toll-Like Receptors Cascades](#)

---

## Application Details

---

Restrictions: For Research Use only

---

## Handling

---

Format: Frozen, Liquid

---

Buffer: Supplied as a 0.2 µm filtered solution of 20 mM MES, 150 mM NaCl, 10 % Glycerol, pH 5.5.

---

Storage: -20 °C

---

Storage Comment: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

---