# Human CTSZ / CTSX / Cathepsin Z (His Tag) recombinant protein

Catalog Number: 501278



## General Information

## Gene Name Synonym

Cathepsin P; Cathepsin X

## **Protein Construction**

A DNA sequence encoding the human CTSZ (Q9UBR2) (Met 1-Val 303) was fused with a polyhistidine tag at the C-terminus.

## **Organism**

Human

## **Expression Host**

**Human Cells** 

# QC Testing

## **Activity**

Measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPPGFSAFK (Dnp)-OH,R&D Systems, Catalog # ES005.
The specific activity is >800 pmoles/min/µg.

## **Purity**

> 97 % as determined by SDS-PAGE

#### **Endotoxin**

< 1.0 EU per  $\mu g$  of the protein as determined by the LAL method

## **Stability**

Samples are stable for up to twelve months from date of receipt at -70°C

# **Predicted N terminal**

Gly 24

#### Molecular Mass

The secreted recombinant human CTSZ (pro form) consists of 291 amino acids and has a predicted molecular mass of 33 kDa. The apparent molecular mass of rhCTSZ is approximately 40 kDa in SDS-PAGE under reducing conditions due to glycosylation.

# **Formulation**

Lyophilized from sterile PBS, pH 7.4

- 1.5% trehalose and mannitol are added as protectants before lyophilization.
- 2. Please contact us for any concerns or special requirements.

# **Usage Guide**

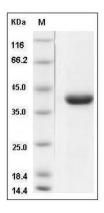
## **Storage**

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

#### **SDS-PAGE**



Human CTSZ Protein (His Tag) SDS-PAGE