

# Human Cathepsin D/CTSD (His Tag) recombinant protein



Catalog Number: 500474

## General Information

### Gene Name Synonym

Cathepsin D light chain; Cathepsin D heavy chain

### Protein Construction

A DNA sequence encoding the pro form of human CTSD (P07339) (Met 1-Leu 412) was fused with a polyhistidine tag at the C-terminus.

### Organism

Human

### Expression Host

Human Cells

## QC Testing

### Activity

Measured by its ability to bind biotinylated human CTSS-His (Cat:501120) in a functional ELISA.

### Purity

> 97 % as determined by SDS-PAGE

### Endotoxin

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

### Stability

Samples are stable for up to twelve months from date of receipt at  $-70^{\circ}\text{C}$

### Predicted N terminal

Ser 19

### Molecular Mass

The secreted recombinant human CTSD (pro form) consists of 405 amino acids and has a predicted molecular mass of 44 kDa. As a result of different glycosylation, the apparent molecular mass of rhCTSD is approximately 40-110 kDa in SDS-PAGE under reducing conditions.

### Formulation

Lyophilized from sterile 25mM MES, 150mM NaCl, pH 6.5

- 5 % trehalose and mannitol are added as protectants before lyophilization.
- Please contact us for any concerns or special requirements.

## Usage Guide

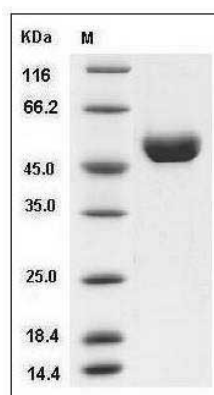
### Storage

Store it under sterile conditions at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$ . 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



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SDS-PAGE