

# Human Cystatin B / CSTB (His Tag) recombinant protein



Catalog Number: 501442

## General Information

### Gene Name Synonym

CPI-B; Liver thiol proteinase inhibitor; Stefin-B

### Protein Construction

A DNA sequence encoding the human CSTB (P04080) (Met 2-Phe 98) was expressed, with a polyhistidine tag at the N-terminus.

### Organism

Human

### Expression Host

E. coli

## QC Testing

### Activity

Measured by its ability to inhibit papain cleavage of a fluorogenic peptide substrate Z-FR-AMC (R&D Systems, Catalog # ES009). The IC<sub>50</sub> value is < 15 nM.

### Purity

> 95 % as determined by SDS-PAGE

### Endotoxin

Please contact us for more information.

### Stability

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

### Predicted N terminal

Met

## Molecular Mass

The recombinant human CSTB consisting of 108 amino acids and has a calculated molecular mass of 12.5 kDa. It migrates as an approximately 15 kDa band in SDS-PAGE under reducing conditions.

## Formulation

Lyophilized from sterile 50mM Tris, 50mM NaCl, pH 8.0

1. 5 % trehalose and mannitol are added as protectants before lyophilization.
2. Please contact us for any concerns or special requirements.

## Usage Guide

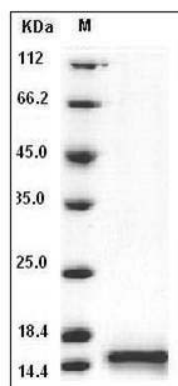
### Storage

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 Cystatin B / CSTB Protein (His Tag) SDS-PAGE