

# Human Cystatin 7 / CST7 (His Tag) recombinant protein



Catalog Number: 504293

## General Information

### Gene Name Synonym

Cystatin-7; Cystatin-like metastasis-associated protein; Leukocystatin

### Protein Construction

A DNA sequence encoding the human Cystatin F precursor (NP\_003641.3) (Met 1-His 145) was expressed with a polyhistidine tag at the C-terminus.

### Organism

Human

### Expression Host

Human Cells

## QC Testing

### Activity

Measured by its ability to inhibit active Cathepsin L cleavage of a fluorogenic peptide substrate Z-LR-AMC (R&D Systems, Catalog # ES008). The IC<sub>50</sub> value is <6 nM.

### Purity

> 92 % 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 20

### Molecular Mass

Cystatin F exists as a disulfide-linked homodimer. The human cystatin F monomer consists of 137 amino acids and has a predicted molecular mass of 16.1 kDa. As a result of glycosylation, the recombinant Cystatin F migrates as an approximately 44 kDa band in SDS-PAGE under non-reduced conditions corresponding to the dimer.

### 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

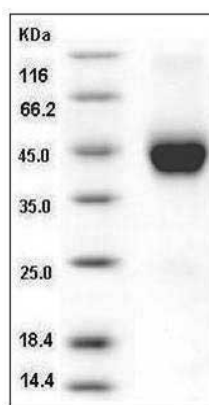
### Storage

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 Cystatin 7 / CST7 Protein (His Tag) SDS-PAGE