

Human Cystatin C / CST3 (His Tag) recombinant protein



Catalog Number: 504057

General Information

Gene Name Synonym

Cystatin-3; Gamma-trace; Neuroendocrine basic polypeptide; Post-gamma-globulin

Protein Construction

A DNA sequence encoding the human Cystatin-C (NP_000090.1) (Ser 27-Ala 146) was expressed with a C-terminal polyhistidine tag.

Organism

Human

Expression Host

Human Cells

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 IC₅₀ value is < 12 nM.

Purity

> 95 % as determined by SDS-PAGE

Endotoxin

< 1.0 EU per µg 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

Ser 27

Molecular Mass

The mature recombinant human Cystatin-C consists of 131 amino acids and predicts a molecular mass of 14.8 kDa. The rh Cystatin-C migrates as approximately 17 kDa band in SDS-PAGE as a result of glycosylation.

Formulation

Lyophilized from sterile 25mM HEPES, 0.15mM NaCl, pH 7.7

1. 5 % trehalose and mannitol are added as protectants before lyophilization.

2. Please contact us for any concerns or special requirements.

Usage Guide

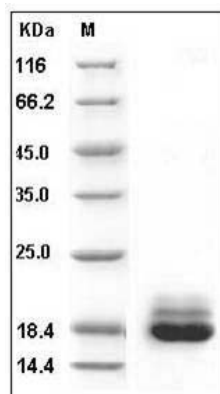
Storage

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 C / CST3 Protein (His Tag) SDS-PAGE