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 $^{\circ}\mathrm{C}$

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

KDa	М	
116	second .	
66.2		
45.0	-	
35.0		
25.0	-	
18.4		
14.4	-	

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