

Human Antithrombin III/ATIII (His Tag) recombinant protein



Catalog Number: 500543

General Information

Protein Construction

A DNA sequence encoding the human SerpinC1 (NP_000479.1) (Met 1-Lys 464) was expressed with a C-terminal polyhistidine tag.

Organism

Human

Expression Host

Human Cells

QC Testing

Activity

Measured by its ability to inhibit thrombin (Sigma, Catalog # T4648) cleavage of a fluorogenic peptide substrate Boc-VPR-AMC.

The IC₅₀ value is < 5 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

His 33

Molecular Mass

The recombinant human SerpinC1 consists of 443 amino acids and has a predicted molecular mass of 50.5 kDa. In SDS-PAGE, the apparent molecular mass of rhSerpinC1 is approximately 55-60 kDa due to glycosylation.

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

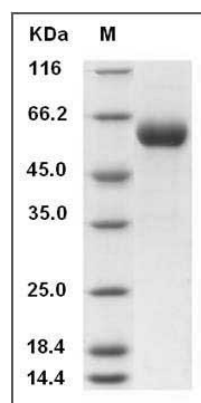
Storage

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 SerpinC1 / AntithrombinIII / ATIII Protein (His Tag) SDS-PAGE