Recombinant Human Serpin C1/Antithrombin-III Protein

Catalog No.: RP00140

Sequence Information

Species
Human

Gene ID
462

Swiss Prot
P01008

Tags
C-His

Synonyms
AT3, AT3D, ATIII, THPH7,SERPINC1, AT3D,ATIII,THPH7

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
49.88 kDa

Observed MW
50-70 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

The protein is a plasma protease inhibitor and a member of the serpin superfamily. This protein inhibits thrombin as well as other activated serine proteases of the coagulation system, and it regulates the blood coagulation cascade. The protein includes two functional domains: the heparin binding-domain at the N-terminus of the mature protein, and the reactive site domain at the C-terminus. The inhibitory activity is enhanced by the presence of heparin. More than 120 mutations have been identified for this gene, many of which are known to cause antithrombin-III deficiency.

Basic Information

Description
Recombinant Human SerpinC1/AntithrombinIII/ATIII Protein is produced by HEK293 expression system. The target protein is expressed with sequence (His33-Lys464) of human SerpinC1/AntithrombinIII/ATIII (Accession #NP_000479.1) fused with a 6×His tag at the C-terminus.

Activity
Measured by its ability to inhibit Recombinant Human Coagulation Factor II /Thrombin cleavage of a fluorogenic peptide substrate Boc-VPR-AMC. The IC50 value is <0.48 nM.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

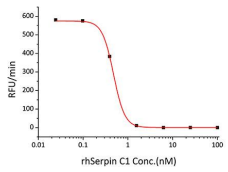
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

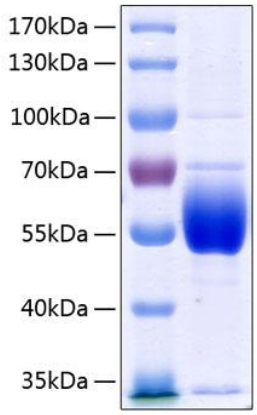
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Validation Data



Recombinant human SERPINC1 inhibits Recombinant Human Coagulation Factor II /Thrombin cleavage of a fluorogenic peptide substrate Boc-VPR-AMC. The IC50 value is <0.48 nM.



Recombinant Human Serpin C1/Antithrombin-III Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.