

Serpin C1/Antithrombin III/ATIII Active Protein | ATIII active protein

Recombinant Human Serpin C1/Antithrombin III/ATIII Protein

CATALOG #
AAA281508

HOST
HEK293 Cells

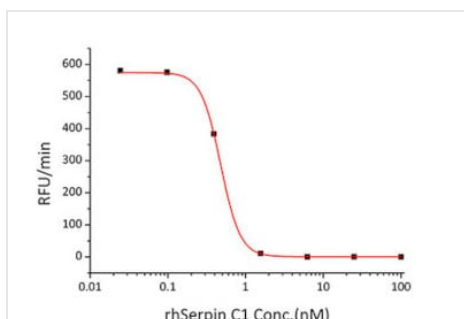
PRODUCT SYNONYMS

Serpin C1/Antithrombin III/ATIII; Recombinant Human Serpin C1/Antithrombin III/ATIII Protein; SerpinC1; AntithrombinIII; ATIII; ATIII active protein

PRODUCT SPECIFICATIONS

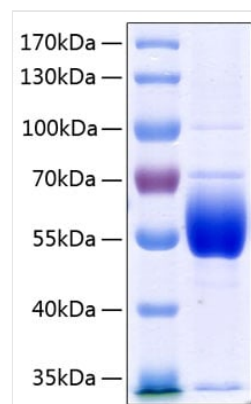
Host	HEK293 Cells
Purity/Purification	>95% by SDS-PAGE.
Form/Format	Lyophilized from a 0.22 um filtered solution of PBS, pH 7.4.
Sequence Length	464
Tag	C-His
Species	Human
Endotoxin	< 0.1 EU/ug of the protein by LAL method.
Reconstitution	Centrifuge the vial before opening. Reconstitute to a concentration 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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Bio-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
Preparation and Storage	Store at -20°C. Store the lyophilized protein at -20 to -80°C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

IMAGES



Application Data

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



SDS-PAGE

Recombinant Human Serpin C1/Antithrombin III/ATIII Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 55-65 kDa.

ADDITIONAL INFORMATION

Related Product Information for ATIII active protein	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 6xHis tag at the C-terminus. 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.
Product Categories/Family for ATIII active protein	Other Recombinant Protein

NCBI AND UNIPROT INFORMATION

NCBI GI #	113936
NCBI GeneID	462
UniProt Accession #	P01008
NCBI Official Full Name	Antithrombin-III
NCBI Official Synonym Full Names	serpin family C member 1
NCBI Official Symbol	SERPINC1
NCBI Official Synonym Symbols	AT3; AT3D; ATIII; THPH7; ATIII-R2; ATIII-T1; ATIII-T2
NCBI Protein Information	antithrombin-III
UniProt Protein Name	Antithrombin-III
UniProt Gene Name	SERPINC1
UniProt Synonym Gene Names	AT3; ATIII
UniProt Entry Name	ANT3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hek293-cells-active-protein/serpin-c1-antithrombin-iii-atiii/281508>