



[Go to Product page](#)

Datasheet for ABIN7534056
SERPINC1 Protein (His tag)

Overview

Quantity:	100 µg
Target:	SERPINC1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This SERPINC1 protein is labelled with His tag.

Product Details

Purpose:	Active Recombinant Human Serpin C1/Antithrombin-III Protein
Sequence:	HGSPVDICTA KPRDIPMNPM CIYRSPEKKA TEDEGSEQKI PEATNRRVWE LSKANSRFAT TFYQHLADSK NDNDNIFLSP LSISTAFAMT KLGACNDTLQ QLMEVFKFDT ISEKTSQIH FFFALNCRLL YRKANKSSKL VSANRLFGDK SLTFNETYQD ISELVYGAKL QPLDFKENAE QSRAAINKWV SNKTEGRITD VIPSEAINEL TVLVLVNTIY FKGLWWSKFS PENTRKELFY KADGESCSAS MMYQEGKFRY RRVAEGTQVL ELPFKGDDIT MVLILPKPEK SLAKVEKELT PEVLQEWLDE LEEMMLVVHM PRFRIEDGFS LKEQLQDMGL VDLFSPEKSK LPGIVAEGRD DLYVSDAFHK AFLEVNEEGS EAAASTAVVI AGRSLNPNRV TFKANRPFLV FIREVPLNTI IFMGRVANPC VK
Specificity:	His33-Lys464
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 µm filtered

Product Details

Endotoxin Level:	< 0.1 EU/μg of the protein by LAL method.
Biological Activity Comment:	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.

Target Details

Target:	SERPINC1
Alternative Name:	Serpin C1/Antithrombin-III (SERPINC1 Products)
Background:	<p>Description: 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.</p> <p>Name: AT3, AT3D, ATIII, THPH7,SERPINC1,AT3D,ATIII,THPH7</p>
Gene ID:	462
UniProt:	P01008

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
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.
Buffer:	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.
Storage:	-20 °C,-80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1

week.