

Product Data Sheet

Antithrombin III/Serpin C1 Protein, Human (HEK293, C-His)

Cat. No.:	HY-P72831A		
Synonyms:	Antithrombin-III; ATIII; Serpin C1; SERPINC1; AT3		
Species:	Human		
Source:	HEK293		
Accession:	P01008 (S35-K464)		
Gene ID:	462		
Molecular Weight:	55-60 kDa		

PROPERTIES

AA Sequence						
/ stocquence	SPVDICTAKP	RDIPMNPMCI	YRSPEKKATE	DEGSEQKIPE		
	ATNRRVWELS	KANSRFATTF	YQHLADSKND	NDNIFLSPLS		
	ISTAFAMTKL	GACNDTLQQL	MEVFKFDTIS	EKTSDQIHFF		
	FAKLNCRLYR	KANKSSKLVS	ANRLFGDKSL	TFNETYQDIS		
	ELVYGAKLQP	LDFKENAEQS	RAAINKWVSN	KTEGRITDVI		
	PSEAINELTV	LVLVNTIYFK	GLWKSKFSPE	ΝΤΓΚΕΙΓΥΚΑ		
	DGESCSASMM	YQEGKFRYRR	VAEGTQVLEL	PFKGDDITMV		
	LILPKPEKSL	AKVEKELTPE	VLQEWLDELE	EMMLVVHMPR		
	FRIEDGFSLK	EQLQDMGLVD	LFSPEKSKLP	GIVAEGRDDL		
	Y V S D A F H K A F	LEVNEEGSEA	AASTAVVIAG	RSLNPNRVTF		
	KANRPFLVFI	REVPLNTIIF	MGRVANPCVK			
Biological Activity	Measured by its ability to inhibit thrombin cleavage of a fluorogenic peptide substrate Boc-VPR-AMC and the IC ₅₀ value is < 5					
	nM.					
Appoarance						
Appearance	Lyophilized powder.					
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.					
Tornitiation	Lyophilized from a 0.2 μ m fillered solution of 20 mm PB, 150 mm NaCl, μ m 7.4.					
Endotoxin Level	<1 EU/µg, determined by LAL method.					
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Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is					
	recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).					
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is					
	recommended to freeze aliquots at -20°C or -80°C for extended storage.					
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Shipping	Room temperature in continental US; may vary elsewhere.					

DESCRIPTION

Background

Antithrombin III/Serpin C1 protein, the principal serine protease inhibitor in plasma, plays a crucial role in regulating the blood coagulation cascade. It effectively inhibits thrombin, matriptase-3/TMPRSS7, and factors IXa, Xa, and XIa, with its inhibitory activity significantly potentiated in the presence of heparin. Additionally, Antithrombin III/Serpin C1 forms a protease-inhibiting heterodimer with TMPRSS7.

Caution: Product has not been fully validated for medical applications. For research use only.

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