

Antithrombin III/Serpin C1 Protein, Human (432a.a, HEK293, His)

Cat. No.: HY-P72831

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	ATNRRVWELS ISTAFAMTKL FAKLNCRLYR ELVYGAKLQP PSEAINELTV DGESCSASMM LILPKPEKSL FRIEDGFSLK YVSDAFHKAF	R D I P M N P M C I K A N S R F A T T F G A C N D T L Q Q L K A N K S S K L V S D F K E N A E Q S V L V N T I Y F K Y Q E G K F R Y R R A K V E K E L T P E E Q L Q D M G L V D E V N E E G S E A R E V P L N T I I F	Y R S P E K K A T E Y Q H L A D S K N D M E V F K F D T I S A N R L F G D K S L R A A I N K W V S N G L W K S K F S P E V A E G T Q V L E L V L Q E W L D E L E L F S P E K S K L P A A S T A V V I A G M G R V A N P C V K	DEGSEQKIPE NDNIFLSPLS EKTSDQIHFF TFNETYQDIS KTEGRITDVI NTRKELFYKA PFKGDDITMV EMMLVVHMPR GIVAEGRDDL RSLNPNRVTF
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.			
Appearance	Lyophilized powder			
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS or 20 mM PB, 150 mM NaCl, pH 7.4.			
Endotoxin Level	<1 EU/μg, determined by LAL method.			
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μ g/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.			
Shipping	Room temperature in continental US; may vary elsewhere.			

Page 1 of 2 www. Med Chem Express. com

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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Page 2 of 2 www.MedChemExpress.com