

Antithrombin III/Serpin C1 Protein, Cynomolgus (HEK293, His)

Cat. No.:	HY-P75581
Synonyms:	Antithrombin-III; ATIII; Serpin C1; SERPINC1; AT3
Species:	Cynomolgus
Source:	HEK293
Accession:	A0A2K5UYN7 (S35-S464)
Gene ID:	102117641
Molecular Weight:	Approximately 55-75 kDa

PROPERTIES

AA Sequence	<p>S P V D I C T A K P</p> <p>R</p> <p>T N R R V W E L S K</p> <p>S T A F A M T K L G</p> <p>A K L N C R L Y R K</p> <p>L V Y G A K L Q P L</p> <p>P E A I N E L T V L</p> <p>G E S C S A S M M Y</p> <p>I L P K P E K S L T</p> <p>R I E D G F S L K E</p> <p>V S D A F H K A F L</p> <p>A N R P F L V F I R</p> <p>D I P M N P M C I Y</p> <p>A N S R F A T T F Y</p> <p>A C N D T L K Q L M</p> <p>A N K S S K L V S A</p> <p>D F K E N A E Q S R</p> <p>V L V N T I Y F K G</p> <p>Q E G K F R Y R R V</p> <p>K V E Q E L T P E V</p> <p>Q L Q D M G L V D L</p> <p>E V N E E G S E A A</p> <p>E V P L N T I I F M</p> <p>R S P E K K A T E D</p> <p>Q H L A D S K N D K</p> <p>E V F K F D T I S E</p> <p>N R L F G D K S L T</p> <p>A A I N K W V S N K</p> <p>L W K S K F S P E N</p> <p>A E G T Q V L E L P</p> <p>L Q E W L D E L E E</p> <p>F S P E K S K L P G</p> <p>A S T A I G I A G R</p> <p>G R V A N P C V S</p> <p>E G S E Q K I P E A</p> <p>D N I F L S P L S V</p> <p>K T S D Q I H F F F</p> <p>F N E T Y Q D I S E</p> <p>T E G R I T D V I P</p> <p>T R M E P F Y K A D</p> <p>F K G D D I T M V L</p> <p>M M L V V H M P R F</p> <p>I V A E G R D D L Y</p> <p>S L N P N R V T F K</p>
Biological Activity	Measured by its ability to inhibit Recombinant Human Coagulation Factor II/Thrombin cleavage of a fluorogenic peptide substrate Boc-VPR-AMC. The IC ₅₀ value is 2.185 nM, as measured under the described conditions.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	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.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

Antithrombin III (ATIII), also known as Serpin C1, is a crucial serine protease inhibitor that forms a protease inhibiting heterodimer with TMPRSS7. This interaction underlines ATIII's role in regulating coagulation processes by inhibiting the activity of various proteases involved in the blood clotting cascade. The formation of a heterodimer with TMPRSS7 emphasizes the specificity of ATIII in targeting and modulating the activity of specific proteases. This protease inhibiting function plays a central role in preventing excessive blood clotting and maintaining hemostatic balance.

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

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