

SERPINC1

Native Human Antithrombin-III

Catalog No.	CRA162A CRA162B	Quantity:	100 µg 1.0 mg
Alternate Names:	Antithrombin-III, ATIII, Serpin C1		
Description:	Human Antithrombin III is an important small molecule serine protease inhibitor that inactivates several enzymes of the coagulation system, thrombin, matriptase -3/TMPRSS7, as well as factors IXa, Xa and XIa . Human Antithrombin is a glycoprotein produced by the liver and a member of a larger family of antithrombins (numbered I, II etc. to VI), all of which are serpins. Potency is strongly enhanced by heparin. Clinically, reduced levels are indicative of hypercoagulability. Antithrombin III is found in normal serum at 15 mg per 100 ml. Found at higher levels in plasma than in serum because of complexing with thrombin during coagulation.		
Uniprot ID:	P01008		
Gene ID:	462		
Source:	Human Plasma		
Molecular Weight:	58.0 kDa		
Formulation:	Lyophilized from 50 mM Tris-HCl, pH 8.0 with 150 mM sodium chloride.		
Purity:	≥ 95% (SDS-PAGE)		
Extinction Coefficient:	$E^{0.1\%}_{280nm} = 0.65$		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 -1.0 mg/mL and gently pipette the solution up and down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution.		
Storage & Stability:	Store unopened at -80°C for up to 1 year. Upon initial thaw, prepare working aliquots and store at -80°C. Avoid repeated freeze-thaw cycles.		
Infectious Disease Statement:	Prepared from plasma shown to be non reactive for HBsAg, anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2 by FDA approved tests.		
Country of Origin:	USA		

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