

Serpinc1 Native Mouse Antithrombin-III

Catalog No.	CSI19883A CSI19883B	Quantity:	1.0 mg 10 mg
Alternate Names:	Serpine C1, ATIII		
Description:	<p>Antithrombin III is a small protein produced in the liver that inactivates several enzymes of the Coagulation Cascade. AT3 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. The physiological target proteases of AT3 are those of the contact activation pathway (formerly known as the intrinsic pathway), namely the activated forms of Factor X (Xa), Factor IX (IXa), Factor XI (XIa), Factor XII (XIIa) and Factor II (Thrombin) (IIa) and also the activated form of Factor VII (VIIa) from the tissue factor pathway (formerly known as the extrinsic pathway). AT3 also inactivates Kallikrein and Plasmin, also involved in blood coagulation. In addition, AT3 inactivates certain other serine proteases that are not involved in coagulation such as Trypsin and the C1s subunit of the enzyme C1 involved in the classical complement pathway. Recent evidence suggests AT3 can also inhibit NF-kappa B activation. More than 120 mutations have been identified in AT3, many of which are known to cause Antithrombin III Deficiency.</p>		
UniProt ID:	P32261		
Gene ID:	11905		
Source:	Mouse Plasma		
Molecular Weight:	58.2 kDa (423 aa)		
Formulation:	0.05 M Sodium Phosphate + 0.1 M NaCl + 1 mM EDTA pH 7.4		
Purity:	>95% by SDS-PAGE analysis		
Concentration:	≥ 1.0 mg/ml, lot specific		
Extinction Coefficient:	$E^{0.1\%}_{280\text{nm}} = 0.65$		
Storage & Stability:	Store at -80°C for up to 1 year. Upon initial thaw, prepare working aliquots and store at -80°C. Avoid repeated freeze-thaw cycles.		

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