

Serpinc1 Native Mouse Antithrombin

Catalog No.	CSI19883A	Quantity:	1.0 mg
	CSI19883B		10 mg

Alternate Names: AI114908, ATIII, At-3, At3

Description: Antithrombin III (AT3/SERPINC1) is a small protein that inactivates several enzymes of the Coagulation Cascade. AT3/SERPINC1 is a glycoprotein produced by the liver and consists of 432aa. It contains three disulfide bonds and a total of four possible glycosylation sites. 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.

Concentration: 5.0 mg/mL

Gene ID: 11905

Source: Mouse Plasma

Molecular Weight: 58.2 kDa

Formulation: Frozen Liquid in 0.05 M Sodium Phosphate + 0.1 M NaCl + 1 mM EDTA pH 7.4

Purity: Several chromatographic steps

Storage & Stability: Store at -70°C.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

