

SERPINA1

A1AT, Native Human Alpha-1-Antitrypsin

Catalog No.	CSI19775A	Quantity:	1 mg
	CSI19775B		5 mg
	CSI19775C		10 mg

Description: Alpha 1-Antitrypsin (A1AT) is a glycoprotein serine protease inhibitor (serpin), inhibiting a wide variety of proteases. It is an acute phase protein that protects tissues from enzymes of inflammatory cells, especially Elastase. In the absence of A1AT, Elastase is free to break down Elastin, which contributes to the elasticity of the lungs, resulting in respiratory complications such as emphysema, or COPD (chronic obstructive pulmonary disease) in adults and cirrhosis in adults or children.

GeneID: 5265

Purity: >95% by SDS-PAGE

Molecular Weight: 52 kDa

Source: Human Plasma

Formulation: Lyophilized from 0.03 M Sodium Phosphate pH 6.5 + 0.3 M NaCl

Reconstitution: Add deionized water to fully solubilize the protein. Aliquot and freeze unused portion.

Specific Activity: 75-100% inhibitory when tested with active-site titrated porcine pancreatic trypsin using N-Benzoyl-L-Arginine-para-Nitroanilide Hydrochloride (L-BAPNA) as substrate.

Storage & Stability: Store at -70°C.

Certification: Shown to be non reactive for HbsAG, anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2 by FDA approved tests.

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

