

Active Native Human α -AntiTrypsin

Cat. No. a-AntiTrypsin-5911H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Human α -AntiTrypsin was purified from human plasma.
Species	Human
Source	Human Plasma
Description	Alpha-1 Antitrypsin or α1-antitrypsin (A1AT) is a protease inhibitor belonging to the serpin superfamily. It is generally known as serum trypsin inhibitor. Alpha 1-antitrypsin is also referred to as alpha-1 proteinase inhibitor (A1PI) because it inhibits a wide variety of proteases. It protects tissues from enzymes of inflammatory cells, especially neutrophil elastase, and has a reference range in blood of 1.5 - 3.5 gram/liter (in US the reference range is generally expressed as mg/dL or micromoles), but the concentration can rise manyfold upon acute inflammation. In its absence, neutrophil 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.
Form	salt-free, lyophilized powder
Bio-activity	≤ 10 mg will inhibit 1.0 mg of trypsin with activity of 10,000 BAEE units per mg protein. ≤ 10 mg will inhibit approx. 1.0 mg of α-chymotrypsin with activity of 40-50 BTEE units per mg protein.
Notes	Chromatographically prepared and partially purified.

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Storage

2-8°C

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