

OryzaExp™ Alpha-1 Antitrypsin, Human Recombinant

CATALOG NO:	P1402-100 100 µg
ALTERNATE NAMES:	Alpha-1 protease inhibitor, Alpha-1-antiproteinase, Serpin A1, AAT, PI
MOL. WT.	43.2 KDa
SOURCE:	Oryza sativa
PURITY:	> 95%
ENDOTOXIN:	≤1EU/ug
FORM:	Lyophilized
FORMULATION:	Lyophilized in PBS, Sucrose was added as a stabilizer
RECONSTITUTION:	Reconstitute in sterile PBS
SPECIFIC ACTIVITY:	3–5 mg OsrAAT inhibit 1 mg PPE (pancreatic porcine elastase) with 10.8 units per mg protein.
STORAGE CONDITIONS:	Store at -20°C or lower. Avoid repeated freezing and thawing cycles. -20°C

DESCRIPTION: Alpha 1 Antitrypsin is an acute-phase plasma protein found at 290 mg per 100 ml. It functions as a serine protease inhibitor with targets like elastase, plasmin, collagenase, thrombin, leucocyte proteases, trypsin, chymotrypsin, and plasminogen activator. Clinically, its deficiency is associated with two major diseases: pulmonary emphysema and early onset/juvenile hepatic cirrhosis. It is elevated in inflammatory conditions, malignancies, liver disease and pregnancy and also after surgical trauma and use of oral contraceptives. The simultaneous quantitative determination of alpha-1-PI and ceruloplasmin permits differential diagnosis of liver afflictions. Rise in alpha 1 antitrypsin occurs as an acute phase response to tissue necrosis and inflammation.

RELATED PRODUCTS:

Alpha1 Antitrypsin Antibody (7009)
Alpha 1 Antitrypsin, Human Plasma (7294)
Anti-Alpha-1-Antitrypsin Antibody (AAT/1378) (A1427)

FOR RESEARCH USE ONLY! Not to be used on humans.

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