

# OryzaExp™ Alpha-1 Antitrypsin, Human Recombinant

<b>CATALOG NO:</b>	P1402-100 100 µg
<b>ALTERNATE NAMES:</b>	Alpha-1 protease inhibitor, Alpha-1-antiproteinase, Serpin A1, AAT, PI
<b>MOL. WT.</b>	43.2 KDa
<b>SOURCE:</b>	Oryza sativa
<b>PURITY:</b>	> 95%
<b>ENDOTOXIN:</b>	≤1EU/ug
<b>FORM:</b>	Lyophilized
<b>FORMULATION:</b>	Lyophilized in PBS, Sucrose was added as a stabilizer
<b>RECONSTITUTION:</b>	Reconstitute in sterile PBS
<b>SPECIFIC ACTIVITY:</b>	3~5 mg OsrAAT inhibit 1 mg PPE (pancreatic porcine elastase) with 10.8 units per mg protein.
<b>STORAGE CONDITIONS:</b>	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.***