

Alpha 1 Antitrypsin, Human Plasma recombinant protein
Alpha-1 protease inhibitor, Alpha-1-antiproteinase, Serpin A1, AAT, PI
Catalog # PBV10918r

Specification

Alpha 1 Antitrypsin, Human Plasma recombinant protein - Product info

Primary Accession [P01009](#)
Calculated MW **52 kDa KDa**

Alpha 1 Antitrypsin, Human Plasma recombinant protein - Additional Info

Gene ID **5265**
Gene Symbol **Serpin A1**
Other Names
Alpha-1 protease inhibitor, Alpha-1-antiproteinase, Serpin A1, AAT, PI

Gene Source **Human**
Source **Human Plasma**
Assay&Purity **SDS-PAGE; ≥95%**
Assay2&Purity2 **N/A;**
Recombinant **No**
Results **≥ 5.0 IU/mg**
Target/Specificity
Serpin A1

Application Notes
In water or aqueous buffer

Format
Lyophilized

Storage
-20°C; Lyophilized from 30 mM Na Phosphate, pH 6.5 with 300 mM NaCl.

Alpha 1 Antitrypsin, Human Plasma recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Alpha 1 Antitrypsin, Human Plasma recombinant protein - Images

Alpha 1 Antitrypsin, Human Plasma recombinant protein - Background

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.

Alpha 1 Antitrypsin, Human Plasma recombinant protein - References

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Long G.L.,et al.Biochemistry 23:4828-4837(1984).
Rosenberg S.,et al.Nature 312:77-80(1984).
Ciliberto G.,et al.Cell 41:531-540(1985).
Nukiwa T.,et al.J. Biol. Chem. 261:15989-15994(1986).