Alpha 1 Antitrypsin, Human Plasma

CATALOG #: 7294-1000 1 mg

ALTERNATE NAMES: Alpha-1 protease inhibitor, Alpha-1-antiproteinase, Serpin A1, AAT, PI

SOURCE: Human Plasma. Shown to be non-reactive for HBsAg, anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2 by FDA approved tests.

PURITY: ≥ 95% by SDS-PAGE

MOL. WEIGHT: 52 kDa

EXTINCTION COEFFICIENT: 0.433

FORM: Lyophilized

FORMULATION: Lyophilized from 30 mM Na Phosphate, pH 6.5 with 300 mM NaCl.

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 affections. Rise in alpha 1 antitrypsin occurs as an acute phase response to tissue necrosis and inflammation.

ACTIVITY: Shows 75-100% inhibition when tested with active-site titrated porcine pancreatic trypsin using Na-Benzoyl-L-Arginine-para-Nitroanilide Hydrochloride (L-BAPNA) as substrate.

STORAGE CONDITIONS: Store at -20°C or lower. Avoid repeated freezing and thawing cycles.

RELATED PRODUCTS:
- Trypsin Activity Colorimetric Assay Kit (Cat. No. K771-100)
- Trypsin, Human pancreas (Cat. No. 7292-50)
- Alpha 1 Antichymotrypsin, Human Plasma (Cat. No. 7293-100)
- Serpin E1/PAI-1, human recombinant, (Cat. No. 4731-10, -100, -1000)
- Human CellExp™ SERPINA1 /A1AT, human recombinant, (Cat. No. 7235-10)
- Serpin A6 Antibody (Cat. No. 3906-100)
- Serpin A6 Blocking Peptide (Cat. No. 3906BP-100)
- Neuroserpin, human recombinant, (Cat. No. 7181-10, -50)

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