

Datasheet for ABIN934458 **SERPINA1 Protein**



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Overview

Quantity: 1 mg

Target: SERPINA1

Origin: Human

Source: Human

Protein Type: Native

Product Details

Cross-Reactivity (Details): When tested with active-site titrated porcine pancreatic trypsin using Na-Benzoyl-L-Arginine-para-Nitroanilide Hydrochloride (L-BAPNA) as substrate, it is 75-100 % inhibitory.

Characteristics: Purified native Human alpha 1 Antitrypsin protein
Protein Source: Human plasma

Purity: > 95 % pure

Target Details

Target: SERPINA1

Alternative Name: alpha 1 Antitrypsin ([SERPINA1 Products](#))

Background: An acute-phase plasma protein found at 290 mg per 100 ml that functions as a protease inhibitor. 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.

Target Details

Description: Human plasma.

Alternative Names: A1-AT protein, alpha 1 protein, alpha-1 Antitrypsin protein, alpha-1-Antitrypsin, alpha-1-Antitrypsin protein, A1AT protein, alpha 1 Antitrypsin

Molecular Weight: 28 kDa

Application Details

Application Notes: Each Investigator should determine their own optimal working dilution for specific applications.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstitute with distilled water.

Buffer: Lyophilized from 30 mM Na₂O₄, pH 6.5, with 300 M NaCl.

Precaution of Use: Donor samples were tested and found to be negative for HBsAg, anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2. Nonetheless caution should be used when handling this material as there is a margin of error in all tests.

Handling Advice: Avoid repeated freeze/thaw cycles.

Storage: -20 °C

Storage Comment: Aliquot and store at -20 °C.