Native Human Serum Alpha 1 AntiTrypsin

**SERPINA-8009H  Human(SERPINA1)**
Lot. No. (See product label)

**PRODUCT INFORMATION**

**Product Overview**
Human Serum Alpha 1 AntiTrypsin was purified from Human Plasma.

**Description**
Human alpha-1 Antitrypsin (A1AT) protects tissue from enzymes from inflammatory cells, especially elastase and is present in human blood. Disorders of the enzyme include human alpha-1 antitrypsin deficiency, a hereditary disorder in which lack of Human alpha-1 Antitrypsin AAT(A1AT) leads to uninhibited tissue breakdown during inflammation. Studies indicate that this causes pulmonary emphysema and leads to liver cirrhosis in severe cases. Human alpha-1 antitrypsin protects the lungs from the harmful effects of human neutrophil elastases.

**Source**
Human Plasma

**Species**
Human

**Form**
Lyophilized

**Molecular Mass**
54 kDa

**Purity**
>95% by SDS-PAGE

**PACKAGING**

**Stability**
1 year

**Storage**
2-8 °C

**ANTIGEN GENE INFORMATION**

**Gene Name**
SERPINA1 serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1 [ Homo sapiens ]

**Official Symbol**
SERPINA1

**Synonyms**
SERPINA1; serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1; PI, serine (or cysteine) proteinase inhibitor, clade A (alpha 1 antiproteinase, antitrypsin), member 1; alpha-1-antitrypsin; A1A; A1AT; AAT; alpha 1 antitrypsin

**GeneID**
5265

**mRNA Refseq**
NM_000295

**Protein Refseq**
NP_000286

**MIM**
107400

**UniProt ID**
P01009

**Chromosome Location**
14q32.1

**Pathway**
Complement and Coagulation Cascades, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem; FOXA1 transcription factor network, organism-specific biosystem; Hemostasis, organism-specific biosystem; Platelet activation, signaling and aggregation, organism-specific biosystem; Platelet degranulation, organism-specific biosystem;
Function protease binding; protein binding; serine-type endopeptidase inhibitor activity; serine-type endopeptidase inhibitor activity;