

# Native Human Serum Alpha 1 AntiTrypsin

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human Serum Alpha 1 AntiTrypsin was purified from Human Plasma.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | Human Plasma                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | 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 elastase |
| <b>Form</b>             | Lyophilized                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Molecular Mass</b>   | 54 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Purity</b>           | >95% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Stability</b>        | 1 year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Storage</b>          | 2-8 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## GENE INFORMATION

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|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | SERPINA1 serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1 [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                             |
| <b>Official Symbol</b>     | SERPINA1                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Synonyms</b>            | 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 antitrypsi                                                                                                                                                                            |
| <b>Gene ID</b>             | 5265                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>mRNA Refseq</b>         | NM_000295                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Protein Refseq</b>      | NP_000286                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>MIM</b>                 | 107400                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>UniProt ID</b>          | P01009                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Chromosome Location</b> | 14q32.1                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Pathway</b>             | 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; |
| <b>Function</b>            | protease binding; protein binding; serine-type endopeptidase inhibitor activity; serine-                                                                                                                                                                                                                                                                                                                                                  |

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