

Native Human Serum Alpha 1 AntiTrypsin

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

SPECIFICATION

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

GENE INFORMATION

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 45-1 Ramsey Road, Shirley, NY 11967, USA

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 antitrypsi
Gene ID	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-

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