

## Active Recombinant Human SERPINA1 protein

Cat. No. SERPINA1-258H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human SERPINA1 was expressed in Rice Grain.
<b>Species</b>	Human
<b>Source</b>	Rice Grain
<b>ProteinLength</b>	384 amino acids
<b>Description</b>	Alpha-1 Antitrypsin(AAT) is a serine protease inhibitor. It protects tissues from enzymes of inflammatory cells, especially neutrophil elastase. If it is deficient, neutrophil elastase is free to break down elastin, which contributes to the elasticity of the lungs, resulting in respiratory complications such as emphysema, or COPD(chronic obstructive pulmonary disease) in adults and cirrhosis in adults or children. The product is derived from rice grain, which contains 384 amino acids with a molecular weight of 43.1 kD.
<b>Form</b>	It is lyophilized with OsrHSA as the stabilizer.
<b>Bio-activity</b>	3-5 mg can inhibit 1 mg PPE(pancreatic porcine elastase) with 10.8 units per mg protein.
<b>Molecular Mass</b>	43.1 Kd
<b>Endotoxin</b>	< 1 EU/mg

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<b>Purity</b>	>95%
<b>Applications</b>	1. Mammalian cell culture;2. Cosmetic and beauty care;3. Biochemical and diagnostic reagents.
<b>Storage</b>	Stored at - 20 centigrade for at least 12 months. Avoid repeated freeze-thaw cycles.
<b>Reconstitution</b>	It is recommended to reconstitute the lyophilized the product in sterile PBS. Use as soon as possible after opening.
<b>Shipping</b>	Ice pack

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">SERPINA1 serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1 [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">SERPINA1</a>
<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 antitrypsin; alpha1AT; PI1; protease inhibitor 1 (anti elastase); serpin A1; alpha-1-antiproteinase; alpha-1-antitrypsin null; alpha-1 protease inhibitor; protease inhibitor 1 (anti-elastase), alpha-1-antitrypsin; serine (or cysteine) proteinase inhibitor, clade A, member 1; PI; PRO2275; MGC9222; MGC23330;
<b>Gene ID</b>	<a href="#">5265</a>
<b>mRNA Refseq</b>	<a href="#">NM_000295</a>

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<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-type endopeptidase inhibitor activity;

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