Active Recombinant Human SERPINA1 protein

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

SPECIFICATION

Product Overview	Recombinant Human SERPINA1 was expressed in Rice Grain.
Species	Human
Source	Rice Grain
ProteinLength	384 amino acids
Description	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, reslting 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.
Form	It is lyophilized with OsrHSA as the stabilizer.
Bio-activity	3-5 mg can inhibit 1 mg PPE(pancreatic porcine elastase) with 10.8 units per mg protein.
Molecular Mass	43.1 Kd
Endotoxin	< 1 EU/mg

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

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; 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;
Gene ID	5265
mRNA Refseq	NM_000295

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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;

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