

Recombinant Human SERPINA1

Cat. No. SERPINA1-0110 Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human SERPINA1 was expressed in Oryza Sativa (Rice Grain) and purified by using HPLC-SEC techniques.
Species	Human
Source	Oryza Sativa
Description	Human Alpha 1?Antitrypsin (AAT) is a glycoprotein having a molecular weight of 53,000 determined by sedimentation equilibrium centrifugation. The glycoprotein consists of a single polypeptide chain to which several oligosaccheride units are covalently bonded. AAT has a role in controlling tissue destruction by endogenous serine proteinases.
Form	Lyophilized Powder
Purity	Greater than 90% as determined by HPLC-SEC.
Usage	For Research, Laboratory and Manufacture Use. The product should not be used as drugs and food additives.
Unitprot ID	P01009

GENE INFORMATION

Gene Name	SERPINA1 serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin),
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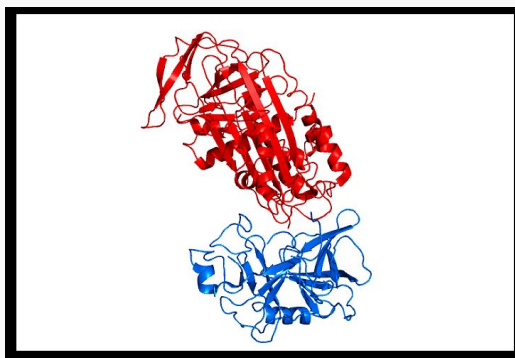
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	member 1 [Homo sapiens]
Official Symbol	SERPINA1
Synonyms	SERPINA1; serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1; PI; A1A; AAT; PI1; A1AT; MGC9222; PRO2275; MGC23330; serine proteinase inhibitor, clade A, member 1; OTTHUMP00000197150; protease inhibitor 1 (anti-elastase), alpha-1-antitrypsin serine (or cysteine) proteinase inhibitor, clade A, member 1
Gene ID	5265
mRNA Refseq	NM_000295
Protein Refseq	NP_000286
MIM	107400
Chromosome Location	14q32.1
Pathway	Complement and Coagulation Cascades; FOXA1 transcription factor network; Formation of Platelet plug; Hemostasis; Platelet Activation; Platelet degranulation; Response to elevated platelet cytosolic Ca ²⁺
Function	protease binding; serine-type endopeptidase inhibitor activity

Crystal structure
of serpin A1 (red) in
an inhibitory
complex with
pancreatic elastase
(blue). Rendered from
PDB 2D26.



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