

Native Human alpha-1 proteinase inhibitor therapeutic protein (Aralast, Aralast NP, Glassia, Prolastin, Prolastin-C, Zemaira)

Cat. No. SERPINA1-P035H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human alpha-1 proteinase inhibitor or alpha-1-antitrypsin, prepared from human plasma via Cohn alcohol fractionation followed by PEG and zinc chloride fractionation.
Species	Human
Source	Human Plasma
Description	Inhibitor of serine proteases. Its primary target is elastase, but it also has a moderate affinity for plasmin and thrombin. Irreversibly inhibits trypsin, chymotrypsin and plasminogen activator. The aberrant form inhibits insulin-induced NO synthesis in platelets, decreases coagulation time and has proteolytic activity against insulin and plasmin.
CAS number	9041-92-3
Molecular Mass	44.32 kDa
AA Sequence	EDPQGDAAQKTDTSHHQDQDHPFNKITPNLAEFASFSLYRQLAHQSNSTNIFFSPVSI ATAFAMLSLGTKAD THDEILEGLNPNLTIPEAQIHEGFQELLRTLNPDSQLQLTTG NGLFLSEGLKLVDFLEDVKKLYHSEA FTVNFGDTEEAQKQINDYVEKGTQGKIVDL VKELDRDRTVFALVNYIFFKQKWERPFEVKDTEEEEDFHVDQV TTVKVPMMKRLGMF NIQHCKKLSSWVLLMKYLGNATAIFFLPDEGKQLHLENELTHDIITKFLNEDRRSA S LHLPKLSITGTYDLKSVLGQLGITKVFNSGADLSGVTEEAAPLKLKSAVHKAVLTIDEKG

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TEAAGAMFLEA IPMSIPPEVKFNKPFVFLMIEQNTKSPLFMGKVVNPTQK

Endotoxin < 0.1 eu per µg of the

Purity >96%

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](#)

Protein Refseq [NP_000286](#)

MIM [107400](#)

UniProt ID [P01009](#)

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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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