

Alpha-1 Antitrypsin Recombinant Protein | SERPINA1 recombinant protein

Recombinant Human Alpha-1 Antitrypsin

CATALOG # AAA38780	HOST E Coli
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PRODUCT SYNONYMS

Alpha-1 Antitrypsin; Recombinant Human Alpha-1 Antitrypsin; SERPINA1 Human; Alpha 1 Antitrypsin Human Recombinant; Alpha-1-antitrypsin; Alpha-1 protease inhibitor; Alpha-1-antiproteinase; SERPINA1; A1AT; PI; A1A; AAT; PI1; MGC9222; PRO2275; MGC23330; SERPINA1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90% as determined by SDS-PAGE.
Form/Format	The protein solution contains 20mM Tris-HCl pH-7.5, 1mM DTT, 10% glycerol, and 2mM EDTA. Sterile Filtered colorless solution.
Concentration	1mg/ml (varies by lot)
Sequence	MEDPQGDAAQ KTDTSHHQD HPTFNKITPN LAEFAFSLYR QLAHQSNSTN IFFSPVSIAT AFAMLSLGTK ADTHDEILEG LNFNLTEIPE AQIHEGFQEL LRTLNPDSQ LQLTTGNGLF LSEGLKLVDK FLEDVKKLYH SEAFVNFVGD TEEAKKQIND YVEKGTQGKI VDLVKELDRD TVFALVNYIF FKGGWERPFE VKDTEEDFH VDQVTTVKVP MMKRLGMFNI QHCKKLSSWW LLMKYLGNAT AIFFLPDEGK LQHLENELTH DIITKFLNE DRRSASLHLP KLSITGTIDL KSVLGQLGIT KVFSNGADLS GVTEEAPLKL SKAVHKAVLT IDEKGTEAAG AMFLEAIPMS IPPEVKFNKP FVFLMIDQNT KSPLFMGKVV NPTQK
Sequence Length	418

ADDITIONAL INFORMATION

Related Product Information for SERPINA1 recombinant protein	Description: SERPINA1 Human Recombinant produced in E Coli is a single, non-glycosylated polypeptide chain containing 395 amino acids (25-418) and having a molecular mass of 44.4 kDa. The SERPINA1 protein is purified by proprietary chromatographic techniques. Introduction: SERPINA1 is secreted and is a serine protease inhibitor which its targets include elastase, plasmin, collagenase, thrombin, leucocytic proteases, trypsin, chymotrypsin, and plasminogen activator. Defects in SERPINA1 gene can cause emphysema or liver disease. Antral SERPINA1 expression is particularly induced by H. pylori infection. lung and prostate cancers have shown a significant increase in SERPINA1 serum levels compared with healthy controls though breast cancers did not show a significant change. SERPINA1 is an endogenous inhibitor of serine proteases and inhibits the catalytic domain of human recombinant matriptase in vitro. Rise in SERPINA1 occurs as an acute phase response to tissue necrosis and inflammation. mutations in SERPINA1 and SLC11A1 genes change the balance between elastase produced by leukocytes during phagocytosis.
Product Categories/Family for SERPINA1 recombinant protein	Recombinant & Natural Proteins; Recombinant Proteins; Serpin

NCBI AND UNIPROT INFORMATION

NCBI GI #	50363217
NCBI GeneID	5265
NCBI Accession #	NP_000286.3
NCBI GenBank Nucleotide #	NM_000295.4

UniProt Accession #	P01009; Q0PVP5; Q13672; Q53XB8; Q5U0M1; Q7M4R2; Q86U18; Q86U19; Q96BF9; Q96ES1; A6PX14; B2RDQ8
Molecular Weight	34,755 Da
NCBI Official Full Name	alpha-1-antitrypsin
NCBI Official Synonym Full Names	serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1
NCBI Official Symbol	SERPINA1
NCBI Official Synonym Symbols	PI; A1A; AAT; PI1; A1AT; PRO2275; alpha1AT
NCBI Protein Information	alpha-1-antitrypsin; alpha-1 protease inhibitor; alpha-1-antiproteinase; alpha-1-antitrypsin null; protease inhibitor 1 (anti-elastase), alpha-1-antitrypsin; serine (or cysteine) proteinase inhibitor, clade A, member 1; serpin A1
UniProt Protein Name	Alpha-1-antitrypsin
UniProt Gene Name	SERPINA1
UniProt Synonym Gene Names	AAT; PI; SPAAT
UniProt Entry Name	A1AT_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/serpina1-recombinant-protein-e-coli/38780>