

Product datasheet for **AR09121PU-L**

Alpha-1-antitrypsin (25-418) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Alpha-1-antitrypsin (25-418) human recombinant protein, 0.5 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MEDPQGDAAQ KTDTSHHDDQD HPTFNKITPN LAEFAFSLYR QLAHQSNSTN IFFSPVSIAT AFAMLSLGTK ADTHDEILEG LNFNLTEIPE AQIHEGFQEL LRTLNPDSQ LQLTTGNGLF LSEGLKLVDK FLEDVKKLYH SEAFTVNFGD TEEAKKQIND YVEKGTQGGI VDLVKELDRD TVFALVNYIF FKGKWERPFE VKDTEEDFDH VDQVTTVKVP MMKRLGMFNI QHCKKLSSWV LLMKYLG NAT AIFFLPDEGK LQHLENLTH DIITKFLNE DRRSASLHLP KLSITGYDL KSVLGQLGIT KVFSNGADLS GVTEEAPLKL SKAVHKAVLT IDEKGTEAAG AMFLEAIPMS IPPEVKFNKP FVFLMIDQNT KSPLFMGKVV NPTQK
Predicted MW:	44.4 kDa
Concentration:	lot specific
Purity:	>90% by SDS PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris pH 7.5, 10% Glycerol, 1 mM DTT, 2 mM EDTA
Preparation:	Liquid purified protein
Protein Description:	Recombinant Antitrypsin protein was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store at 2-8°C for 1-2 weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_000286
Locus ID:	5265
UniProt ID:	P01009 , E9KL23
Cytogenetics:	14q32.13
Synonyms:	A1A; A1AT; AAT; alpha1AT; nNIF; PI; PI1; PRO2275



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Summary:

The protein encoded by this gene is a serine protease inhibitor belonging to the serpin superfamily whose targets include elastase, plasmin, thrombin, trypsin, chymotrypsin, and plasminogen activator. This protein is produced in the liver, the bone marrow, by lymphocytic and monocytic cells in lymphoid tissue, and by the Paneth cells of the gut. Defects in this gene are associated with chronic obstructive pulmonary disease, emphysema, and chronic liver disease. Several transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Aug 2020]

Protein Families:

Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein

Protein Pathways:

Complement and coagulation cascades

Product images: