

Product datasheet for **TP701025**

alpha 1 Antitrypsin (SERPINA1) (NM_001002235) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified protein of human z-type alpha-1-antitrypsin protein Glu342Lys mutant, Tag Free, secretory expressed in HEK cells, 50ug
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	A DNA sequence from TrueORF clone, RC204951, encoding the region Glu25-End of SERPINA1(Glu342Lys)
Tag:	Tag Free
Predicted MW:	44.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 90% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	PBS, pH 7.4, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_001002235
Locus ID:	5265
UniProt ID:	P01009
RefSeq Size:	3199
Cytogenetics:	14q32.13
RefSeq ORF:	1254
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: