

Alpha-1 Antitrypsin, Active Human Recombinant

Item Number	rAP-4776
Synonyms	Alpha-1-antitrypsin, Alpha-1 protease inhibitor, Alpha-1-antiproteinase, SERPINA1, A1AT, PI, A1A, AAT, PI1, MGC9222, PRO2275, MGC23330.
Description	SERPINA1 Human Recombinant produced in rice is a single, non-glycosylated polypeptide chain containing 384 amino acids and having a molecular mass of 43.1 kDa. The SERPINA1 protein is purified by proprietary chromatographic techniques.
Uniprot Accession Number	P01009
Amino Acid Sequence	
Source	Rice Grain (Oryza Sativa).
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized SERPINA1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution SERPINA1 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Formulation and Purity	SERPINA1 was lyophilized from a concentrated solution containing recombinant Albumin. Greater than 95% as determined by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized SERPINA1 in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	3~5 mg SERPINA1 will inhibit 1 mg PPE with an activity of 10.8 units per mg protein
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**