

Product datasheet for **BA672**

Alpha-1-antitrypsin Human Protein

Product data:

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| Product Type: | Native Proteins |
| Description: | Alpha-1-antitrypsin human protein, 1 mg |
| Species: | Human |
| Protein Source: | Plasma |
| Concentration: | lot specific |
| Purity: | >95% by SDS-PAGE |
| Buffer: | Presentation State: Purified State: Lyophilized purified fraction. Buffer System: 30mM Sodium Phosphate, pH 6.5 containing 300mM Sodium Chloride without preservatives. |
| Reconstitution Method: | Restore with 434.0 µl distilled water. |
| Preparation: | Lyophilized purified fraction. |
| Applications: | Specific methodologies have not been tested using this product. |
| Protein Description: | Human Alpha 1-Antitrypsin. An acute phase plasma protein found at 290 mg per 100 ml that functions as a protease inhibitor |
| Note: | Caution: All human source materials have tested negative for HIV 1 and HIV 2 antibodies and non-reactive for anti-HCV, anti-HBc and HBsAg. No test guarantees a product to be non-infectious. Therefore, all material derived from human fluids or tissues should be considered as potentially infectious. |
| Storage: | Upon receipt, Store at -20°C. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: one year from despatch. |
| RefSeq: | NP_000286 |
| Locus ID: | 5265 |
| Cytogenetics: | 14q32.13 |
| Synonyms: | SERPINA1, AAT |



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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: | Specific methodologies have not been tested using this product. |
| Protein Pathways: | Complement and coagulation cascades |