

## Recombinant Human SERPINA1 Protein, His-tagged

**Cat. No.** SERPINA1-050H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                             |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant protein of human serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1 (SERPINA1), transcript variant 3, full length, with N-terminal HIS tag, expressed in E. coli.                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                       |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                      |
| <b>Description</b>      | Short peptide from AAT: reversible chymotrypsin inhibitor. It also inhibits elastase, but not trypsin. Its major physiological function is the protection of the lower respiratory tract against proteolytic destruction by human leukocyte elastase (HLE). |
| <b>Molecular Mass</b>   | 46.7 kDa                                                                                                                                                                                                                                                    |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                 |
| <b>Stability</b>        | Stable for at least 3 months from receipt of products under proper storage and handling conditions.                                                                                                                                                         |
| <b>Storage</b>          | Store at -80 centigrade. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                 |
| <b>Concentration</b>    | >50 g/mL as determined by microplate BCA method                                                                                                                                                                                                             |
| <b>Storage Buffer</b>   | 25mM Tris, pH 8.0, 150mM NaCl, 10% glycerol, 1% Sarkosyl.                                                                                                                                                                                                   |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**Full Length**
**Full L.**

## GENE INFORMATION

**Gene Name**

SERPINA1 serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1 [ Homo sapiens ]

**Official Symbol**

SERPINA1

**Synonyms**

SERPINA1; serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1; PI, serine (or cysteine) proteinase inhibitor, clade A (alpha 1 antiproteinase, antitrypsin), member 1; alpha-1-antitrypsin; A1A; A1AT; AAT; alpha 1 antitrypsin; alpha1AT; PI1; protease inhibitor 1 (anti elastase); serpin A1; alpha-1-antiproteinase; alpha-1-antitrypsin null; alpha-1 protease inhibitor; protease inhibitor 1 (anti-elastase), alpha-1-antitrypsin; serine (or cysteine) proteinase inhibitor, clade A, member 1; PI; PRO2275; MGC9222; MGC23330;

**Gene ID**

5265

**mRNA Refseq**

NM\_000295

**Protein Refseq**

NP\_000286

**MIM**

107400

**UniProt ID**

P01009

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA