

## Recombinant Rat a1AT, His-tagged

**Cat. No.** a1AT-3308R    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Alpha-1-Antitrypsin (a1AT)                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Rat                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | 411                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>      | About the Marker: Effective Size Range: 10kDa to 70kDa. Protein bands: 10kDa, 14kDa, 18kDa, 22kDa, 26kDa, 33kDa, 44kDa and 70kDa. Double intensity bands: The 26kDa, 18kDa, 10kDa bands are at double intensity to make location and size approximation of proteins of interest quick and easy. Ready-to-use: No need to heat, dilute or add reducing agents before use. |
| <b>Form</b>             | Supplied as lyophilized form in PBS, pH 7.4, containing 5% sucrose, 0.01% sarcosyl.                                                                                                                                                                                                                                                                                      |
| <b>Molecular Mass</b>   | 19.1kDa                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Endotoxin</b>        | <1.0eu per 1ug (determined by the lal <1.0eu)                                                                                                                                                                                                                                                                                                                            |
| <b>Purity</b>           | >95%                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Applications</b>     | SDS-PAGE, Western Blot (WB), ELISA (EIA), Immunoprecipitation (IP)                                                                                                                                                                                                                                                                                                       |
| <b>Notes</b>            | Small volumes of a1AT recombinant protein may occasionally become entrapped in                                                                                                                                                                                                                                                                                           |

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the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container's cap. Certain products may require to ship with dry ice.

**Storage**

Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.

**Reconstitution**

Reconstitute in sterile PBS, pH7.2-pH7.4.

**Warning**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

## GENE INFORMATION

**Gene Name**

[Serpina1](#) serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1 [ [Rattus norvegicus](#) ]

**Official Symbol**

[Serpina1](#)

**Synonyms**

Pi; AAT; Spi1; alpha-1-antiproteinase; serpin A1; alpha-1-protease inhibitor; alpha-1-proteinase inhibitor; serine protease inhibitor alpha 1; alpha-1-antitrypsin (protease inhibitor); serine (or cysteine) proteinase inhibitor, clade A, member 1; serine (or cysteine) proteinase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1

**Gene ID**

[24648](#)

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|                            |                                                                                                                                    |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>mRNA Refseq</b>         | NM_022519                                                                                                                          |
| <b>Protein Refseq</b>      | NP_071964                                                                                                                          |
| <b>UniProt ID</b>          | P17475                                                                                                                             |
| <b>Chromosome Location</b> | 6q32                                                                                                                               |
| <b>Pathway</b>             | Complement and Coagulation Cascades, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem |
| <b>Function</b>            | endopeptidase inhibitor activity; identical protein binding                                                                        |

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