

Recombinant Rat a1AT, His-tagged

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

SPECIFICATION

Product Overview	Alpha-1-Antitrypsin (a1AT)
Species	Rat
Source	E.coli
ProteinLength	411
Description	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.
Form	Supplied as lyophilized form in PBS, pH 7.4, containing 5% sucrose, 0.01% sarcosyl.
Molecular Mass	19.1kDa
Endotoxin	<1.0eu per 1ug (determined by the lal) <1.0eu
Purity	>95%
Applications	SDS-PAGE, Western Blot (WB), ELISA (EIA), Immunoprecipitation (IP)
Notes	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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mRNA Refseq	NM_022519
Protein Refseq	NP_071964
UniProt ID	P17475
Chromosome Location	6q32
Pathway	Complement and Coagulation Cascades, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem
Function	endopeptidase inhibitor activity; identical protein binding

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