

Recombinant Rat Serpina1 Protein, His-tagged

Cat. No. Serpina1-2052R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Serpina1 Protein (Met1-Val257) with N-His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Met1-Val257
Description	Enables serine-type endopeptidase inhibitor activity. Involved in several processes, including negative regulation of serine-type endopeptidase activity; response to estradiol; and response to methanol. Located in extracellular space. Used to study pulmonary hypertension. Biomarker of asthma; osteoarthritis; pancreatitis (multiple); primary hyperaldosteronism; and proteinuria. Human ortholog(s) of this gene implicated in several diseases, including alpha 1-antitrypsin deficiency; chronic obstructive pulmonary disease (multiple); human immunodeficiency virus infectious disease; inflammatory bowel disease (multiple); and liver disease (multiple). Orthologous to human SERPINA1 (serpin family A member 1).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 33.3 kDa Accurate Molecular Mass: 44 kDa
Purity	> 90%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	Serpina1 serpin family A member 1 [<i>Rattus norvegicus</i> (Norway rat)]
Official Symbol	Serpina1
Synonyms	Serpina1; serpin family A member 1; Pi; AAT; Spi1; alpha-1-antiproteinase; alpha-1-antitrypsin (protease inhibitor); alpha-1-protease inhibitor; alpha-1-proteinase inhibitor; serine (or cysteine) proteinase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1; serine (or cysteine) proteinase inhibitor, clade A, member 1; serine protease inhibitor alpha 1; serpin A1; serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1
Gene ID	24648
mRNA Refseq	NM_022519

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Protein Refseq	NP_071964
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UniProt ID	P17475
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