

Active Recombinant Mouse Serpina1a, His-tagged

Cat. No. Serpina1a-304M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Serpina1a (Accession # AAH11040) Glu25-Lys413, fused with a C-terminal 6-His tag, was produced in Mouse myeloma cell line, NS0-derived.
Species	Mouse
Source	Mammalian Cells
ProteinLength	25-413 a.a.
Predicted N Terminal	Glu25
Form	Supplied as a 0.2 µ filtered solution in Tris and NaCl.
Bio-activity	Measured by its ability to inhibit trypsin cleavage of a fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH ₂ . The IC ₅₀ is <5 nM, as measured under the described conditions.
Molecular Mass	Recombinant Mouse Serpina1a, His-tagged has a calculated MW of 44 kDa. In SDS-PAGE migrates as 50-60 kDa, reducing conditions.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain at 5 µg per lane.
Storage	Avoid repeated freeze-thaw cycles. No activity loss was observed after storage at: In lyophilized state for 1 year (4°C); After reconstitution under sterile conditions for 3

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months (-70°C).

GENE INFORMATION

Gene Name	Serpina1a serine (or cysteine) peptidase inhibitor, clade A, member 1A [<i>Mus musculus</i> (house mouse)]
Official Symbol	Serpina1a
Synonyms	Serpina1a; serine (or cysteine) peptidase inhibitor, clade A, member 1A; PI1; Aat2; Dom1; Aat-2; Spi1-1; Spi1-3; alpha-1-antitrypsin 1-1; AAT; alpha-1 protease inhibitor 1; alpha-1-antiproteinase; alpha-1-antitrypsin 2; serine (or cysteine) proteinase inhibitor, clade A, member 1a; serine protease inhibitor 1-1; serine protease inhibitor A1a; serpin A1a
Gene ID	20700
mRNA Refseq	NM_001252569
Protein Refseq	NP_001239498
MIM	
UniProt ID	P07758
Chromosome Location	12 E; 12 52.98 cM

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