

Recombinant Mouse Serpina1a, His-tagged

Cat. No. Serpina1a-473M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the mouse Serpina1a (XP_003945711.1) (Met1-Lys413) was expressed with a C-terminal polyhistidine tag.
Species	Mouse
Source	Human Cells
ProteinLength	Met1-Lys413
Form	Lyophilized from sterile PBS, pH7.4.
Molecular Mass	The recombinant mouse Serpina1a comprises 400 amino acids and has a predicted molecular mass of 44.9 kDa. The apparent molecular mass of the protein is approximately 45-50 kDa in SDS-PAGE under reducing conditions due to glycosylation.
Endotoxin	< 1.0 eu per µg of the protein as determined by the LAL method.
Purity	>95 % as determined by SDS-PAGE
Stability	Samples are stable for up to twelve months from date of receipt at -70°C
Storage	Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

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Reconstitution Hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

Gene Name	Serpina1a?serine (or cysteine) peptidase inhibitor, clade A, member 1A [Mus musculus?(house mouse)]
Official Symbol	Serpina1a
Synonyms	Serpina1a; PI1; Aat2; Dom1; Aat-2; Spi1-1; Spi1-3; serine (or cysteine) peptidase inhibitor, clade A, member 1A; alpha-1-antitrypsin 1-1; AAT; serpin A1a; alpha-1-antitrypsin 2; alpha-1-antiproteinase; alpha-1 protease inhibitor 1; serine protease inhibitor 1-1; serine protease inhibitor A1a; serine (or cysteine) proteinase inhibitor, clade A, member 1a
Gene ID	20700
mRNA Refseq	NM_001252569
Protein Refseq	NP_001239498
UniProt ID	P07758
Chromosome Location	12 E; 12 52.98 cM
Pathway	Complement and coagulation cascades; Platelet activation, signaling and aggregation; Platelet degranulation
Function	endopeptidase inhibitor activity; identical protein binding; serine-type endopeptidase inhibitor activity

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