

Recombinant Mouse Serpine1

Cat. No. Serpine1-2462M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Serpine1 was expressed in <i>E. Coli</i> . It was the ideal choice for studies involving this animal model of fibrinolysis and cancer studies. The active fraction typically contained 70 percent active PAI-1. MW=43 KDa.
Species	Mouse
Source	E.coli
Description	Plasminogen activator inhibitor-1 is the principal inhibitor of tissue plasminogen activator (tPA) and urokinase (uPA), the activators of plasminogen and hence fibrinolysis (the physiological breakdown of blood clots). It is a serine protease inhibitor (serpin) protein (SERPINE1). The other PAI, plasminogen activator inhibitor-2 (PAI-2) is secreted by the placenta and only present in significant amounts during pregnancy. In addition, protease nexin acts as an inhibitor of tPA and urokinase. PAI-1, however, is the main inhibitor of the plasminogen activators.
Concentration	2.5 mg/ml.
Volume	0.2 ml.
Buffer	0.05 M Sodium Acetate; 0.1 M NaCl; 1 mM EDTA; pH 5.0.
Form	Frozen liquid.
Shipping Information	Recommended Storage: -70°C; Shipping Conditions: Dry ice; Minimum Shelf Life: 3

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years from delivery.

GENE INFORMATION

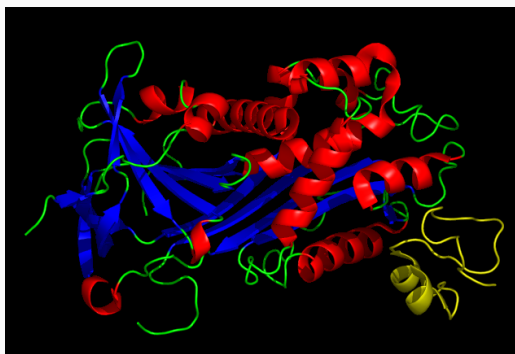
Gene Name	Serpine1 serine (or cysteine) peptidase inhibitor, clade E, member 1 [Mus musculus]
Synonyms	Serpine1; serine (or cysteine) peptidase inhibitor, clade E, member 1; PAI1; PAI-1; Planh1; plasminogen activator inhibitor 1; PAI; serpin E1; plasminogen activator inhibitor, type I; endothelial plasminogen activator inhibitor; nexin, plasminogen activator inhibitor type 1; serine (or cysteine) proteinase inhibitor, clade E, member 1; Plasminogen activator inhibitor-1 precursor (PAI-1) (Endothelial plasminogen activator inhibitor) (PAI)
Gene ID	18787
mRNA Refseq	NM_008871
Protein Refseq	NP_032897
UniProt ID	P22777
Chromosome Location	5 G2
Pathway	Chagas disease; Complement and coagulation cascades; p53 signaling pathway
Function	peptidase inhibitor activity; protein binding; serine-type endopeptidase activity; serine-type endopeptidase inhibitor activity

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**PAI-1 in complex
with the SMB domain
of Vitronectin PDB
1OC0**



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