Recombinant Human Serpin Peptidase Inhibitor, Clade E (nexin, plasminogen activator inhibitor type 1), Member 1

Cat. No. SERPINE1-5490H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SERPINE1, glycosylated stable mutant containsmutations to confer additional stability to the otherwise labile molecule.
Species	Human
Source	Insect Cells
Description	SERPINE1is a protein that in humans is encoded by the SERPINE1 gene. SERPINE1 is aserine protease inhibitor (serpin) that functions as the principal inhibitorof tissue plasminogen activator (tPA) and urokinase (uPA), the activators ofplasminogen and hence fibrinolysis (the physiological breakdown of bloodclots). It is a serine protease inhibitor (serpin) protein.
Form	Frozen liquid in0.05 M sodium phosphate + 0.1 M NaCl + 1 mM EDTA, pH 6.6.
Concentration	2.5 mg/ml
Molecular Weight	46.0 kDa
Storage	Store inworking aliquots at -80°C. Avoid repeated freeze-thaw cycles.
OfficialSymbol	SERPINE1

GENE INFORMATION

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Gene Name	SERPINE1serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitortype 1), member 1 [Homo sapiens]
Synonyms	SERPINE1; serpin peptidase inhibitor, cladeE (nexin, plasminogen activator inhibitor type 1), member 1; Plasminogen activator inhibitor 1; Endothelialplasminogen activator inhibitor; PAIE; Clade E; PLANH1; SERPINE 1; PAI;PAI-1; PAI1; plasminogen activator inhibitor-1; plasminogen activatorinhibitor, type I; serine (or cysteine) proteinase inhibitor, clade E (nexin,plasminogen activator inhibitor type 1), member 1; Endothelial plasminogenactivator inhibitor
Gene ID	5054
mRNA Refseq	NM_000602
Protein Refseq	NP_000593
MIM	173360
UniProt ID	P05121
Chromosome Location	7q21.3-q22
Pathway	Adipogenesis; BMAL1:CLOCK/NPAS2 Activates Gene Expression; Blood Clotting Cascade; Chagas disease(American trypanosomiasis); Circadian Clock; Complement and CoagulationCascades; Direct p53 effectors; Dissolution of Fibrin Clot; E2F transcriptionfactor network; HIF-1-alpha transcription factor network; HIF-2-alphatranscription factor network; Hemostasis; Platelet activation; Plateletdegranulation; Regulation of nuclear SMAD2/3 signaling
Function	peptidase inhibitor activity;protease binding; protein binding; serine-type

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	endopeptidase inhibitoractivity; contributes to receptor binding
PAI-1 in complexwith the SMB domain of Vitronectin PDB 1OC0.	

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