

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 contains mutations to confer additional stability to the otherwise labile molecule.
Species	Human
Source	Insect Cells
Description	SERPINE1 is a protein that in humans is encoded by the SERPINE1 gene. SERPINE1 is a serine protease inhibitor (serpin) that functions as the principal inhibitor of tissue plasminogen activator (tPA) and urokinase (uPA), the activators of plasminogen and hence fibrinolysis (the physiological breakdown of bloodclots). It is a serine protease inhibitor (serpin) protein.
Form	Frozen liquid in 0.05 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 in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.
Official Symbol	SERPINE1

GENE INFORMATION

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Gene Name	SERPINE1serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1 [Homo sapiens]
Synonyms	SERPINE1; serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1; Plasminogen activator inhibitor 1; Endothelial plasminogen activator inhibitor; PAIE; Clade E; PLANH1; SERPINE 1; PAI; PAI-1; PAI1; plasminogen activator inhibitor-1; plasminogen activator inhibitor, type I; serine (or cysteine) proteinase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1; Endothelial plasminogen activator 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 Coagulation Cascades; Direct p53 effectors; Dissolution of Fibrin Clot; E2F transcription factor network; HIF-1-alpha transcription factor network; HIF-2-alpha transcription factor network; Hemostasis; Platelet activation; Platelet degranulation; Regulation of nuclear SMAD2/3 signaling
Function	peptidase inhibitor activity; protease binding; protein binding; serine-type

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endopeptidase inhibitor activity; contributes to receptor binding

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

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