

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

Cat. No. SERPINE1-5496H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinanthuman SERPINE1 non-LRP binding stable mutant with a substitution of GlutamicAcid for Arginine at position 76 that greatly decreases the binding of thismutant to the low density lipoprotein receptor-related protein (LRP). Theputative LRP binding exosite is thought to overlap with the heparin bindingsite on the SERPINE1 molecule. Binding to LRP or similar receptors leads tothe clearance of SERPINE1 complexes.
Species	Human
Source	E.coli
Description	SERPINE1is a protein that in humans is encoded by the SERPINE1 gene. SERPINE1 is a serine 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	Frozenliquid in 0.05 M sodium phosphate + 0.1 M NaCl + 1 mM EDTA, pH 6.6.
Concentration	2.5 mg/ml
Molecular Weight	43.0 kDa

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Storage	Store in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.
Official Symbol	SERPINE1
GENE INFORMATION	
Gene Name	SERPINE1 serpin 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

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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 endopeptidase inhibitor activity; contributes to receptor binding

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

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