

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

Cat. No. SERPINE1-5492H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SERPINE1 NBDlabeled mutant contains a Ser to Cys replacement around the vitronectinbinding site. Incorporation of an NBD label allows for the reporting ofbinding to vitronectin.
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
Storage	Store inworking aliquots at -80°C. Avoid repeated freeze-thaw cycles.
OfficialSymbol	SERPINE1

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GENE INFORMATION

Gene Name	SERPINE1serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 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-alpha transcription factor network; Hemostasis; Platelet activation; Plateletdegranulation; Regulation of nuclear SMAD2/3 signaling

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Function

peptidase inhibitor activity;protease binding; protein binding; serine-type
endopeptidase inhibitoractivity; contributes to receptor binding

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

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