

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

Cat. No. SERPINE1-5502H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant activehuman SERPINE1, fluorescein labeled by iodoacetamide substitution at theN-terminal cysteine.
Species	Human
Source	E.coli
Description	SERPINE1 also knownas endothelial plasminogen activator inhibitor or serpin E1 is a protein thatin humans is encoded by the SERPINE1 gene. SERPINE1 is a serine protease inhibitor(serpin) that functions as the principal inhibitor of tissue plasminogenactivator (tPA) and urokinase (uPA), the activators of plasminogen and hencefibrinolysis (the physiological breakdown of blood clots). It is a serineprotease inhibitor (serpin) protein (SERPINE1). The other PAI, plasminogenactivator inhibitor-2 (PAI-2) is secreted by the placenta and only present insignificant amounts during pregnancy. In addition, protease nexin acts as aninhibitor of tPA and urokinase. PAI-1, however, is the main inhibitor of theplasminogen activators.
Molecule Weight	43.0 kDa
Form	Frozen liquid in0.05 M sodium phosphate + 0.1 M NaCl + 1 mM EDTA, pH 6.6.
Concentration	2.5 mg/ml

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Storage	Store in working aliquots at -80°C, protected from light. Avoid repeated freeze-thaw cycles.
Official Symbol	SERPINE1
Pathways	Adipogenesis; BMAL1:CLOCK/NPAS2 Activates Gene Expression; Blood Clotting Cascade; Complement and Coagulation Cascades; Dissolution of Fibrin Clot; E2F transcription factor network; HIF-2-alpha transcription factor network; Platelet activation; Platelet degranulation; Regulation of nuclear SMAD2/3 signaling; Response to elevated platelet cytosolic Ca ²⁺ ; Selenium Pathway; Senescence and Autophagy; TGF Beta Signaling Pathway; p53 signaling pathway
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; PAI; PAI1; PAI-1; PLANH1; plasminogen activator inhibitor 1; serpinE1; OTTHUMP00000211478; endothelial plasminogen activator inhibitor; serine(or cysteine) proteinase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1
Gene ID	5054
mRNA Refseq	NM_000602
Protein Refseq	NP_000593
MIM	173360

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UniProt ID	P05121
Chromosome Location	7q21.3-q22
Function	peptidase inhibitor activity; protease binding; protein binding; contributes to receptor binding; serine-type endopeptidase inhibitor activity
PAI-1 in complex with the SMB domain of Vitronectin PDB 1OC0.	

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