Recombinant Human SERPINE1, Alexa 488 Labeled

Cat. No. SERPINE1-1848H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinantactive human SERPINE1 labeledwith Alexa Fluor 488 by iodoacetamide substitution at the N-terminal cysteine.
Species	Human
Source	E.coli
Description	SERPINE1 is aprotein that in humans is encoded by the SERPINE1 gene. SERPINE1 is a serineprotease inhibitor (serpin) that functionsas the principal inhibitor of tissue plasminogen activator (tPA) andurokinase (uPA), the activators of plasminogen and hence fibrinolysis (thephysiological breakdown of blood clots). It is a serine protease inhibitor(serpin) protein (SERPINE1).
Molecular Weight	43 kDa
Form	Frozen liquid in0.05 M Sodium Phosphate Buffer + 0.1 M NaCl + 1 mM EDTA, pH 6.6.
Purity	> 95% by SDS-PAGEanalysis.
Concentration	2.5 mg/ml
Storage	Store at-80°C. Protect from light. Stable for 3 years from delivery. Avoid repeated freeze-thawcycles.

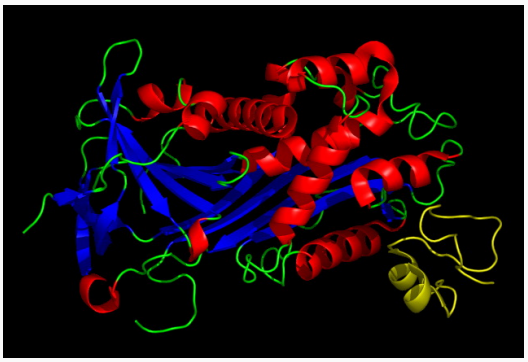
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OfficialSymbol	SERPINE1

GENE INFORMATION

Gene Name	SERPINE1 serpin peptidaseinhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1[Homo sapiens]
Synonyms	SERPINE1; serpinpeptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1),member 1; PAI;PAI1; PAI-1; PLANH1; plasminogen activator inhibitor 1; serpin E1; OTTHUMP00000211478;endothelial plasminogen activator inhibitor; serine (or cysteine) proteinaseinhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1
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; Chagasdisease (American trypanosomiasis); Circadian Clock; Complement andCoagulation Cascades; Direct p53 effectors; Dissolution of Fibrin Clot; E2Ftranscription factor network; HIF-1-alpha transcription factor network;HIF-2-alpha transcription factor network; Hemostasis; Platelet activation;Platelet degranulation;

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	Regulation of nuclear SMAD2/3 signaling; Response toelevated platelet cytosolic Ca2+; Selenium Pathway; Senescence and Autophagy;TGF Beta Signaling Pathway; p53 signaling pathway
Function	peptidase inhibitoractivity; protease binding; protein binding; contributes_to receptor binding;serine-type endopeptidase inhibitor activity
PAI-1 in complexwith the SMB domain of Vitronectin PDB 1OC0	

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