

Recombinant Human SERPINE1, Alexa 488 Labeled

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

SPECIFICATION

Product Overview	Recombinant active human SERPINE1 labeled with Alexa Fluor 488 by iodoacetamide substitution at the N-terminal cysteine.
Species	Human
Source	E.coli
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 blood clots). It is a serine protease inhibitor (serpin) protein (SERPINE1).
Molecular Weight	43 kDa
Form	Frozen liquid in 0.05 M Sodium Phosphate Buffer + 0.1 M NaCl + 1 mM EDTA, pH 6.6.
Purity	> 95% by SDS-PAGE analysis.
Concentration	2.5 mg/ml
Storage	Store at -80°C. Protect from light. Stable for 3 years from delivery. Avoid repeated freeze-thaw cycles.

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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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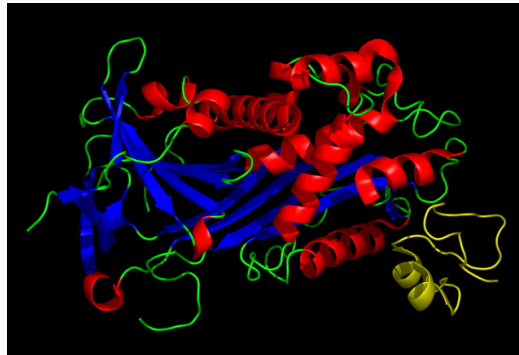
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Regulation of nuclear SMAD2/3 signaling; Response to elevated platelet cytosolic Ca²⁺; Selenium Pathway; Senescence and Autophagy; TGF Beta Signaling Pathway; p53 signaling pathway

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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