

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

Cat. No. SERPINE1-5488H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SERPINE1 is expressed in E. coli.
Species	Human
Source	E.coli
Description	A single mutation at the P1 position of SERPINE1 alters the target specificity of SERPINE1 from the plasminogen activators tPA and uPA to Cathepsin G. This mutant contains a P1 Phenylalanine in place of the wild type Arginine residue resulting in an inhibitor with the specificity of antichymotrypsin.
Form	Frozen liquid in 0.05 M sodium phosphate + 0.1 M NaCl + 1 mM EDTA, pH 6.6.
Molecular Weight	43 kDa
Concentration	2.5 mg/ml
Storage	Store in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.
Pathways	Adipogenesis; BMAL1:CLOCK/NPAS2 Activates Gene Expression; Blood Clotting Cascade; Chagas disease (American trypanosomiasis); Circadian Clock; Complement and Coagulation Cascades; Direct p53 effectors; Dissolution of Fibrin Clot; E2F transcription factor network; HIF-1- α transcription factor network; Hemostasis; Platelet activation; Platelet degranulation; Selenium Pathway; p53 signaling pathway

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

GENE INFORMATION

Gene Name	SERPINE1 serpinpeptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1),member 1 [Homo sapiens]
Official Symbol	SERPINE1
Synonyms	SERPINE1;serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1; PAI; PAI1; PAI-1; PLANH1; plasminogenactivator inhibitor 1; serpin E1; endothelial plasminogen activator inhibitor;serine (or cysteine) proteinase inhibitor, clade E (nexin, plasminogenactivator inhibitor type 1), member 1; Endothelialplasminogen activator inhibitor; Serpin E1; OTTHUMP00000211478
Gene ID	5054
mRNA Refseq	NM_000602
Protein Refseq	NP_000593
MIM	173360
UniProt ID	P05121
Chromosome Location	7q21.3-q22
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	

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