

# 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

<b>Product Overview</b>	Recombinant Human SERPINE1 is expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	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.
<b>Form</b>	Frozen liquid in 0.05 M sodium phosphate + 0.1 M NaCl + 1 mM EDTA, pH 6.6.
<b>Molecular Weight</b>	43 kDa
<b>Concentration</b>	2.5 mg/ml
<b>Storage</b>	Store in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.
<b>Pathways</b>	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-alpha 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](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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

## GENE INFORMATION

<b>Gene Name</b>	SERPINE1 serpinpeptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1),member 1 [ Homo sapiens ]
<b>Official Symbol</b>	SERPINE1
<b>Synonyms</b>	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
<b>Gene ID</b>	5054
<b>mRNA Refseq</b>	NM_000602
<b>Protein Refseq</b>	NP_000593
<b>MIM</b>	173360
<b>UniProt ID</b>	P05121
<b>Chromosome Location</b>	7q21.3-q22
<b>Function</b>	peptidase inhibitoractivity; protease binding; protein binding; contributes_to receptor binding;serine-type endopeptidase inhibitor activity
<b>PAI-1 in complexwith the SMB domain of Vitronectin PDB</b>	

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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



10C0.

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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