

Recombinant Human Serpin Peptidase Inhibitor, Clade E (Nexin, Plasminogen Activator Inhibitor Type 1), Member 1

Cat. No. SERPINE1-5117H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SERPINE1 was expressed in E. coli.
Species	Human
Source	E.coli
Description	SERPINE1 is a member of the serpin family of serine protease inhibitors, and is the primary inhibitor of urokinase and tissue plasminogen activator (tPA). SERPINE1 is expressed predominantly in adipose, liver and vascular tissues, and is also produced by certain tumor cells. Elevated levels of SERPINE1 are associated with obesity, diabetes and cardiovascular disease, and increased production of SERPINE1 is induced by various obesity-related factors such as TNF α , glucose, insulin, and very-low-density lipoprotein. The obesity-related elevation of SERPINE1 levels along with the consequential deficiency in plasminogen activators can lead directly to increased risk of thrombosis and other coronary diseases.
Concentration	0.1-1.0 mg/ml
Form	Lyophilized from 50mM CH ₃ COONa, pH 5.5, with 100mM NaCl. Reconstitute in water to a concentration of 0.1-1.0 mg/ml.
Purity	> 98% pure by SDS-PAGE and HPLC
Sequence	Region of SERPINE1 protein corresponding to amino acids: MVHHPPSYVA

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HLASDFGVRV FQQVAQASKDRNVVFSYGV ASVLAMLQLT TGGETQQQIQ
 AAMGFKIDDK GMAPALRHLY KELMGPWNKD EISTDAIFVQRDLKLVQGF
 MPHFFRLFRS TVKQVDFSEV ERARFIINDW VKTHTKGMIS NLLGKGAVDQ
 LTRLVLVNALYFNGQWKTPF PDSST

Molecular Mass 42.7 kDa

Applications Numerous applications are possible with this product and should be tested by the enduser under their own laboratory conditions.

Storage Store at 4 deg C until reconstitution. Following reconstitution aliquot and freeze at -20 deg C for long term storage. Avoid repeated freeze/thaw cycles.

Official Symbol SERPINE1

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; serine (or cysteine) proteinase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1; plasminogen activator inhibitor, type I; Plasminogen activator inhibitor 1; Endothelial plasminogen activator inhibitor; Serpin E1; OTTHUMP00000211478; OTTHUMP00000211479

Gene ID 5054

mRNA Refseq NM_000602

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Protein Refseq	NP_000593
MIM	173360
UniProt ID	P05121
Chromosome Location	7q21.3-q22
Pathway	Complement and coagulation cascades; Hemostasis
Function	peptidase inhibitor activity; protease binding; protein binding; serine-type endopeptidase activity; serine-type endopeptidase inhibitor activity
SERPINE1 in complex with the SMB domain of Vitronectin PDB 1OC0. 	