

Active Recombinant Human SERPINE1, His-tagged

Cat. No. SERPINE1-535H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Plasminogen activator inhibitor-1, fused to His tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 45 kDa (400 aa).
Species	Human
Source	E.coli
Protein Length	24-402 a.a.
Description	Plasminogen activator inhibitor-1 (PAI-1), a member of the serine protease inhibitor (serpin) super family. PAI-1 is the principal inhibitor of tissue plasminogen activator and urokinase, the activators of plasminogen and hence fibrinolysis. PAI-1 is mainly produced by the endothelium but is also secreted by other tissue types, such as adipose tissue.
Form	Liquid. In 150mM Na ₂ HPO ₄ (pH 6.6) containing 0.5 mM NaCl, 2 mM Glutathione, 0.01% Tween-80.
Purity	> 95% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MVHHPPSYVA HLASDFGVRV FQVQAQASKD RNVVFSPYGV ASVLAMLQLT TGGETQQQIQ AAMGFKIDDK GMAPALRHLY

 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

KELMGPWNKD EISTTDAIFV QRDLKLVQGF MPHFFRLFRS TVKQVDFSEV
 ERARFIINDW VKTHTKGMIS NLLGKGAVDQ LTRLVLVNAL YFNGQWKTPF
 PDSSTHRRLF HKSDGSTVSV PMMAQTNKFN YTEFTTPDGH YYDILELPYH
 GDTLSMFIAA PYEKEVPLSA LTNILSAQLI SHWKGNMTRL PRLLVLPKFS
 LETEVDLRKP LENLGMTDMF RQFQADFTSL SDQEPLHVAQ ALQKVKIEVN
 ESGTVASSST AVIVSARMAP EEIIMDRPFL FVVRHNPTGT VLFMGQVMEP.

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Bio-activity

The IC50 for this effect is less than 3 nM, Measured by its ability to inhibit uPA cleavage of the substrate Z-GGR-AMC.

GENE INFORMATION

Gene Name

SERPINE1 serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1 [Homo sapiens]

Synonyms

Plasminogen activator inhibitor 1; Endothelial plasminogen activator inhibitor; PAIE; Clade E; PLANH1; SERPINE 1; SERPINE1; PAI; PAI-1; PAI1; serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1; plasminogen activator inhibitor-1; plasminogen activator inhibitor, type I; serine (or cysteine) proteinase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1; Endothelial plasminogen activator inhibitor

Gene ID

5054

mRNA Refseq

NM_000602

Protein Refseq

NP_000593

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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;serine-type endopeptidase inhibitor activity
PAI-1 in complex with the SMB domain of Vitronectin PDB 1OC0.	