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**Product Data Sheet**


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Product Name: SERPINE1 Human

Cat. No.: GP22245

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	PAI-1; PAI1; PLANH1; SERPINE1; PAIE; PLASMINOGEN ACTIVATOR INHIBITOR; BETA-MIGRATING ENDOTHELIAL-CELL-DERIVED TYPE.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MVHHPPSYVA HLASDFGVRV FQQVAQASKD RNVVFSPYGVASVLAMLQLT TGGETQQQIQ AAMGFKIDDK GMAPALRHLY KELMGPWNKD EISTTDAIFVQRDLKLVQGF MPHFFRLFRS TVKQVDFSEV ERARFIINDW VKTHTKGMIS NLLGKGAVDQLTRLVLVNAL YFNGQWKTPF PDSSTHRRLF HKSDGSTVSV PMMAQTNKFN YTEFTTPDGHYYDILELPYH GDTLSMFIAA PYEKEVPLSA LTNILSAQLI SHWKGNMTRL PRLLVLPKFSLETEVDLRKP LENLGMTDMF RQFQADFTSL SDQEPLHVAQ ALQKVKIEVN ESGTVASSSTAVIVSARMAP EEIIMDRPFL FVVRHNPTGT VLFMGQVMEP.		
Formulation	150mM Na <sub>2</sub> HPO <sub>4</sub> , pH 6.6, 0.5mM NaCl, 2mM Glutathione and 0.01% Tween-80.		

**Introduction**

Plasminogen activator inhibitor-1 is the principal inhibitor of tissue plasminogen activator(tPA) and uPA, the activators of plasminogen and hence fibrinolysis (the physiological breakdown of blood clots). It is a serine protease inhibitor (serpin) protein (SERPINE1). The other PAI, plasminogen activator inhibitor-2 (PAI-2) is secreted by the placenta and only present in significant amounts during pregnancy. In addition, protease nexin acts as an inhibitor of tPA. SERPINE1, however, is the main inhibitor of the plasminogen activators.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

**Caution: Product has not been fully validated for medical applications. For research use only.**

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

SERPINE1 Human Recombinant fused to N-terminal His-Tag produced in E.Coli is a single, non-glycosylated polypeptide chain containing 400 amino acids (24-402) and having a molecular mass of 45 kDa. The SERPINE1 is purified by proprietary chromatographic techniques.

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