

## SERPINE1 Human

**Description:** 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.

**Catalog #:** ENPS-364

**Synonyms:** PAI-1, PAI1, PLANH1, SERPINE1, PAIE, PLASMINOGEN ACTIVATOR INHIBITOR, BETA-MIGRATING ENDOTHELIAL-CELL-DERIVED TYPE.

For research use only.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered clear colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MVHHPPSYVA HLASDFGVRV  
FQQAQASKD RNVFSPYGVASVLAMLQLT TGGETQQQIQ AAMGFKIDDK GMAPALRHLY  
KELMGPNWKN EISTDAIFVQRDLKLVQGF MPHFFRLFRS TVKQVDFSEV ERARFIINDW  
VKHTKGMIS NLLGKGAVDQLTRLVLVNL YFNGQWKTPF PDSSTHRRLF HKSDGSTVSV  
PMMAQTNKFN YTEFT

**Purity:** Greater than 95.0% as determined by SDS-PAGE.

**Formulation:**

150mM Na<sub>2</sub>HPO<sub>4</sub>, pH 6.6, 0.5mM NaCl, 2mM Glutathione and 0.01% Tween-80.

**Stability:**

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

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

Plasminogen activator inhibitor-1 is the principal inhibitor of tissue plasminogen activator (tPA) and urokinase (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 and urokinase. SERPINE1, however, is the main inhibitor of the plasminogen activators.

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