

Human Recombinant PAI-1

CATALOG NO:	6377-100	100 µg
ALTERNATE NAMES:	Plasminogen activator inhibitor-1, SERPINE1, PAI, PAI1, PLANH1.	
SOURCE:	E.Coli	
PURITY:	> 95% by SDS - PAGE	
MOL. WEIGHT:	45 kDa (400 aa, 24-402 aa + NT His-Tag)	
FORMULATION:	1 mg/ml solution in 150 mM Na ₂ HPO ₄ (pH 6.6) containing 0.5 mM NaCl, 2 mM Glutathione and 0.01% Tween-80.	

STORAGE CONDITIONS:

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.

DESCRIPTION:

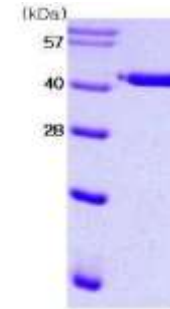
Plasminogen activator inhibitor-1 is the principal inhibitor of tissue plasminogen activator (tPA) and Urokinase (uPA), the activators of plasminogen and hence fibrinolysis (the physiological breakdown of blood clots). It is a serine protease inhibitor (serpin) protein (SERPINE1). The other PAI, plasminogen 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.

AMINO ACID SEQUENCE:

MGSSHHHHHH SSGLVPRGSH MVHHPPSYVA HLASDFGVRV FQQVAQASKD
 RNVVFSYPYGV ASVLAMLQLT TGGETQQQIQ AAMGFKIDDK GMAPALRHLY
 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

BIOLOGICAL 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.



15% SDS-PAGE (3µg)

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RELATED PRODUCTS:

- PAI-1 Antibody (Cat. No. 5579-100)
- Serpin E1/PAI-1, human recombinant (Cat. No. 4731-10, -100, -1000)
- uPAR Antibody (Cat. No. 3440-100)
- uPAR Antibody (Cat. No. 3722-100)

FOR RESEARCH USE ONLY! Not to be used in humans.