Human Recombinant PAI-1

CATALOG #: 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)

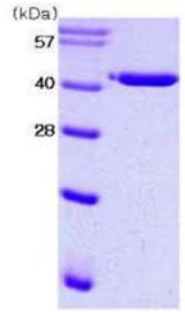
FORMULATION: 1 mg/ml solution in 150 mM Na_2HPO_4 (pH 6.6) containing 0.5 mM NaCl, 2 mM Glutathione and 0.01% Tween-80.

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 RNVVFSPYGV 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:
Specific activity, the IC_{50} value is < 56 nM. Measured by its ability to inhibit uPA cleavage of the substrate Z-GGR-AMC.



15% SDS-PAGE (3ug)

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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.