



Product Datasheet

Product Name	Plasminogen Activator Inhibitor-1 Human Recombinant
Cata No	CB500532
Source	Escherichia Coli.
Synonyms	PAI-1, PAI1, PLANH1, SERPINE1, PAIE, PLASMINOGEN ACTIVATOR INHIBITOR, BETA-MIGRATING ENDOTHELIAL-CELL-DERIVED TYPE.

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. PAI-1, however, is the main inhibitor of the plasminogen activators. PAI1 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 PAI1 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered clear colorless solution

Purity

Greater than 95.0% as determined by:

(a) Analysis by RP-HPLC.

(b) Analysis by SDS-PAGE.

Formulation

150mM Na₂HPO₄, pH 6.6, 0.5mM NaCl, 2mM Glutathione and 0.01% Tween-80.

Stability

PAI1 although stable 10°C for 1 week, should be stored desiccated below -18°C, -70°C is preferred.

Please prevent freeze-thaw cycles.

Sequence

MGSSHHHHHH SGLVPRGSH MVHHPPSYVA
HLASDFGVRV FQQVAQASKD
RNVVFSPLYGVASVLAMLQLT TGGETQQQIQ
AAMGFKIDDK GMAPALRHLY KELMGPWNKD
EISTDAIFVQRDLKLVQGF MPHFFRLFRS
TVKQVDFSEV ERARFIINDW VKTHTKGMIS
NLLGKGAVDQLTRLVLVNAL YFNGQWKTPF
PDSSTHRRFL HKSDGSTVSV PMMAQTNKFN
YTEFTTPDGHYYDILELPYH GDTLSMFIAA
PYEKEVPLSA LTNILSAQLI SHWKGNMTRL
PRLVLPKFSLETEVDLRKP LENLGMTDMF
RQFQADFTSL SDQEPLHVAQ ALQKVKIEVN
ESGTVASSSTAVIVSARMAP EEIIMDRPFL
FVVRHNPTGT VLFMGQVMEP