

Product datasheet

Recombinant Human PAI1 protein ab50117

Overview

Product name	Recombinant Human PAI1 protein
Protein length	Recombinant Protein

Description

Nature	Recombinant
Source	Escherichia coli

Amino Acid Sequence

Species	Human
Sequence	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 ALQVKKIEVN ESGTVASSST AVMSARMAP EEIIMDRPFL FVVRHNPTGT VLFMGQVMEP

Specifications

Our [Abpromise guarantee](#) covers the use of **ab50117** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Biological activity	Determined by its inhibitory effect against single chain tPA induced cleavage of a chromogenic substrate in Imidazole Buffer at 37°C. Half maximal inhibition against 1.0 µg/ml of single chain tPA was obtained at a concentration of 2.0 µg/ml.
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Applications	SDS-PAGE
Endotoxin level	< 0.100 Eu/µg
Purity	> 95 % SDS-PAGE.

Greater than 95% by SDS-PAGE and HPLC analyses.

Form	Lyophilised
Additional notes	Determined by its inhibitory effect against single chain tPA induced cleavage of a chromogenic substrate in Imidazole Buffer at 37oC. Half maximal inhibition against 1.0 µg/ml of single chain tPA was obtained at a concentration of 2.0 µg/ml.

Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. Preservative: None Constituents: 50mM Sodium acetate, 100mM Sodium chloride, pH 5.5
Reconstitution	Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. This solution can then be diluted into other aqueous buffers and stored at 4oC for 1 week or -20oC for future use.

General Info

Function	This inhibitor acts as 'bait' for tissue plasminogen activator, urokinase, and protein C. Its rapid interaction with TPA may function as a major control point in the regulation of fibrinolysis.
Tissue specificity	Found in plasma and platelets and in endothelial, hepatoma and fibrosarcoma cells.
Involvement in disease	Defects in SERPINE1 are the cause of plasminogen activator inhibitor-1 deficiency (PAI-1D) [MIM:613329]. It is a hematologic disorder characterized by increased bleeding after trauma, injury, or surgery. Affected females have menorrhagia. The bleeding defect is due to increased fibrinolysis of fibrin blood clots due to deficiency of plasminogen activator inhibitor-1, which inhibits tissue and urinary activators of plasminogen. Note=High concentrations of SERPINE1 seem to contribute to the development of venous but not arterial occlusions.
Sequence similarities	Belongs to the serpin family.
Post-translational modifications	Inactivated by proteolytic attack of the urokinase-type (u-PA) and the tissue-type (TPA), cleaving the 369-Arg-Met-370 bond.
Cellular localization	Secreted.

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