

Product datasheet

Recombinant rat PAI1 protein ab170082

[2 Images](#)

Description

Product name	Recombinant rat PAI1 protein	
Biological activity	ab170082 is >60 percent active as determined by SDS PAGE.	
Purity	<p>> 95 % SDS-PAGE.</p> <p>The His tag allows for the immobilization of functionally active PAI1 onto surfaces such as metal chelate microtiter plates or Ni+2 resins. The purification conditions are gentle and result in an active fraction >99 percent pure and >60 percent active as determined by SDS PAGE.</p>	
Expression system	Escherichia coli	
Accession	P20961	
Protein length	Full length protein	
Animal free	No	
Nature	Recombinant	
Species	Rat	
Sequence	<p>SPLPESHTAQQATNFGVKVFQHVQASKDRNVVFSP YGVSSVLAMLQLTT AGKTRQQIQDAMGFNISERGTAPALRKLSKELMGSWN KNEISTADAIQVQ RDLELVQGFMPHFFKLFRTTVKQVDFSEVERARFIIND WVERHTKGMISD LLAKGAVNELTRLVLVNALYFNGQWKTPFLEASTHQRL FHKSDGSTISVP MMAQNNKFNYTEFTTPDGHEYDILELPYHGETLSMFIA APFEKDVPLSAI TNILDAELIRQWKSNMTRLPRLLILPKFSLETEVDLRGP LEKLGMTDIFS STQADFTSLSDQEQLSVAQALQKVKIEVNESGTVASS STAILVSARMAPT EMVLDRSFLFVVRHNPTEILFMGQLMEP</p>	
Predicted molecular weight	43 kDa including tags	
Amino acids	24 to 402	
Tags	His tag N-Terminus	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab170082** in the following tested applications.

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

Applications SDS-PAGE
Western blot
Functional Studies

Form Liquid

Preparation and Storage

Stability and Storage Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
pH: 5.00
Constituents: 0.41% Sodium acetate, 0.03% EDTA, 0.58% Sodium chloride
This product is an active protein and may elicit a biological response in vivo, handle with caution.

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.

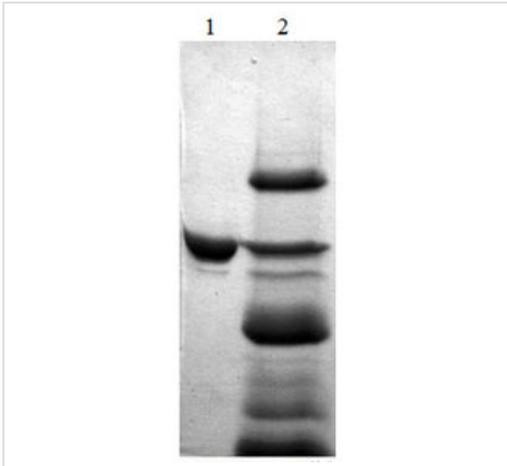
Involvement in disease Defects in SERPINE1 are the cause of plasminogen activator inhibitor-1 deficiency (PAI-1D) [MIM:613329]. It is a hematologic disorder characterized by increased bleeding after trauma, injury, or surgery. Affected females have menorrhagia. The bleeding defect is due to increased 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.

Images

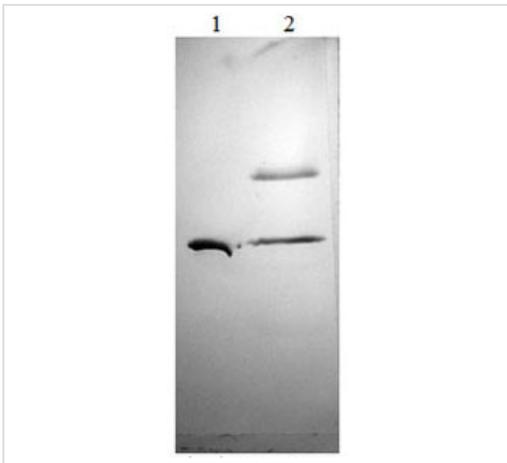


SDS-PAGE analysis of ab170082.

Lane 1: 3 μ g ab170082 Reduced

Lane 2: Rat PAI1 (3 μ g) + Urokinase (15 μ g) Reduced

SDS-PAGE - Recombinant rat PAI1 protein
(ab170082)



Anti His tag Western Blot analysis of ab170082.

Lane 1: 0.5 μ g ab170082 Reduced

Lane 2: Rat PAI1 (0.5 μ g) + Urokinase (7.5 μ g) Reduced

Western blot - Recombinant rat PAI1 protein
(ab170082)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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