

## Product datasheet

### Recombinant human PAI1 (mutated N150H + K154T + Q319L + M354I) protein ab92969

[1 Image](#)

#### Description

<b>Product name</b>	Recombinant human PAI1 (mutated N150H + K154T + Q319L + M354I) protein
<b>Biological activity</b>	>95% active by uPA titration. Kinetic Data: Second order rate constants for inhibition of: uPA = $5.1 \times 10^6 \text{ M}^{-1}\text{s}^{-1}$ tPA = $7.9 \times 10^5 \text{ M}^{-1}\text{s}^{-1}$
<b>Purity</b>	> 95 % SDS-PAGE. > 99% pure by SDS PAGE
<b>Expression system</b>	Escherichia coli
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human

#### Specifications

Our **Abpromise guarantee** covers the use of **ab92969** in the following tested applications.

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

<b>Applications</b>	SDS-PAGE Functional Studies
<b>Form</b>	Liquid
<b>Additional notes</b>	Solubility: > 2 mg/mL and < 5 mg/mL Ultraviolet: Absorbance (280nm) = 2.5 epsilon <sup>0.1%</sup> = 1.0

ab92969 contains the following four mutations: K154T, Q319L, M354I and N150H. These mutations combine to confer great stability to the otherwise labile molecule essentially locking in into the active conformation. It is an ideal choice for in vivo studies.

#### Preparation and Storage

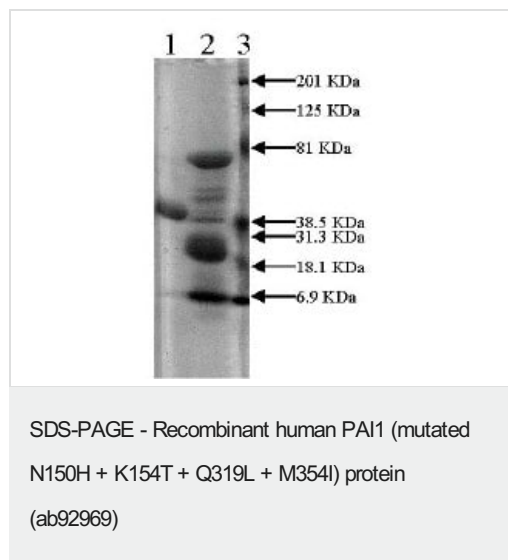
<b>Stability and Storage</b>	Shipped on Dry Ice. Store at -80°C. pH: 6.60 Constituents: 0.82% Sodium phosphate, 0.0292% EDTA, 0.58% Sodium chloride
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This product is an active protein and may elicit a biological response in vivo, handle with caution.

## General Info

<b>Function</b>	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.
<b>Tissue specificity</b>	Found in plasma and platelets and in endothelial, hepatoma and fibrosarcoma cells.
<b>Involvement in disease</b>	<p>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.</p> <p>Note=High concentrations of SERPINE1 seem to contribute to the development of venous but not arterial occlusions.</p>
<b>Sequence similarities</b>	Belongs to the serpin family.
<b>Post-translational modifications</b>	Inactivated by proteolytic attack of the urokinase-type (u-PA) and the tissue-type (TPA), cleaving the 369-Arg-Met-370 bond.
<b>Cellular localization</b>	Secreted.

## Images



10% SDS Page Gelcode Blue Stain

1. 3ug ab92969 reduced
2. 3ug ab92969 + 12ug Urokinase reduced
3. prestained standard

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

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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