

## Product datasheet

# Recombinant Human PAI1 (mutated ) protein ab93153

### Description

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<b>Product name</b>	Recombinant Human PAI1 (mutated ) protein
<b>Purity</b>	> 95 % 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
<b>Modifications</b>	mutated P12R + P14R

### Specifications

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Our **Abpromise guarantee** covers the use of **ab93153** 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
<b>Form</b>	Liquid

#### Additional notes

ab93153 contains two amino acid substitutions at positions P12 and P14 in the reactive center loop which produces a PAI1 that becomes a substrate for proteinases rather than an inhibitor.

### Preparation and Storage

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<b>Stability and Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 6.60 Constituents: 0.82% Sodium phosphate, 0.0292% EDTA, 0.58% Sodium chloride
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### General Info

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<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>	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.
<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.

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

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