# abcam

## Product datasheet

## Recombinant mouse PAI1 protein ab93068

1 References 1 Image

**Description** 

Product name Recombinant mouse PAI1 protein

Biological activity ab93068 is 80 (+/-) 5% active by uPA titration. The active fraction typically contains 70 percent

active PAI1. Active concentration = ~2.0 mg/mL.

Purity > 95 % SDS-PAGE.

Expression system Escherichia coli

Accession P22777

Protein length Full length protein

Animal free No

Nature Recombinant

**Species** Mouse

Sequence LPLRESHTAHQATDFGVKVFQQVVQASKDRNVVFSPYGV

SSVLAMLQMTT

AGKTRRQIQDAMGFKVNEKGTAHALRQLSKELMGPWNK

NEISTADAIFVQ

RDLELVQGFMPHFFKLFQTMVKQVDFSEVERARFIINDWV

**ERHTKGMIND** 

LLAKGAVDELTRLVLVNALYFSGQWKTPFLEASTHQRLFH

**KSDGSTVSVP** 

MMAQSNKFNYTEFTTPDGLEYDVVELPYQGDTLSMFIAAP

**FEKDVHLSAL** 

TNILDAELIRQWKGNMTRLPRLLILPKFSLETEVDLRGPLEK

**LGMPDMFS** 

ATLADFTSLSDQEQLSVAQALQKVRIEVNESGTVASSSTA FVISARMAPT EMVIDRSFLFVVRHNPTETILFMGQVMEP

Amino acids 24 to 402

**Specifications** 

Our Abpromise guarantee covers the use of ab93068 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

1

**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, 0.0292% 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

lnactivated by proteolytic attack of the urokinase-type (u-PA) and the tissue-type (TPA), cleaving

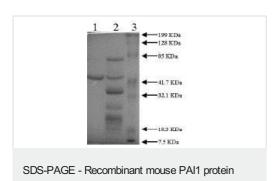
the 369-Arg-

-Met-370 bond.

Cellular localization Secreted.

## Images

(ab93068)



10% SDS-PAGE

Lane 1: PAI1 (5 µg) Reduced

Lane 2: PAI1 (5  $\mu$ g) +uPA-HTC (8  $\mu$ g) Reduced

Lane 3: Prestained Standard

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

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