Plasminogen Activator Inhibitor 1 (PAI-1) peptide

Catalog Number: 06-271-83423

**Related Product Names:**
- SERPINE1 peptide; SERPINE1; PAI1; PLANH1; Plasminogen Activator Inhibitor 1 (PAI-1)
- PAI-1; Endothelial plasminogen activator inhibitor; PAI; Plasminogen activator inhibitor 1

**Gene Information**
Information in yellow represents specific gene information and does not necessarily represent specific product details. For more information please contact sales@genwaybio.com.

<table>
<thead>
<tr>
<th>Gene Name</th>
<th>Gene Name Synonym</th>
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<tbody>
<tr>
<td>SERPINE1</td>
<td>PAI1; PLANH1</td>
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<table>
<thead>
<tr>
<th>Gi #</th>
<th>NCBI Acc #</th>
<th>Swiss Prot Acc #</th>
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<tbody>
<tr>
<td>189578</td>
<td>AAA60009.1</td>
<td>P05121</td>
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</tbody>
</table>

Length (aa): 402  
Mol. Weight (Da): 45060  
Chrom Location: N/A

**Sequence (One Letter Code):** ARMAPE

**Sequence:** {ALA} {ARG} {MET} {ALA} {PRO} {GLU}

**Formula:** C27H47N9O9S1

**Solubility:** Soluble in water. The contents of this vial have been accurately determined. Both the stopper and the vial have been siliconized. Do not attempt to weight out a smaller portion of the contents.

**Purity/Purification:** > 95%

**Storage:** Before use, store the peptide in the DRY form at 0°C - 5°C. For best and repeatable results, rehydrate the peptide immediately before use. Do not re-freeze any unused portion.

**Stability:** 6-12 months at -20 degree C.

**Shipping:** Products may be shipped on ice pack or dry ice.

**TESTING: (secondary reagents and protocols)**

**Structure:** (anti-SERPINE1 peptide)
SERPINE1 PEPTIDE TARGET DESCRIPTION:

**Synonym Names for SERPINE1 peptide:** SERPINE1; PAI1; PLANH1; PAI-1; Endothelial plasminogen activator inhibitor; PAI; Plasminogen activator inhibitor 1

Plasminogen activator inhibitor-1 (PAI-1) is a 50 kD glycoprotein that belongs to the serine proteinase inhibitor superfamily which is the primary inhibitor of both tissue-type and urokinase-type plasminogen activators. The main function of PAI-1 is to decrease fibrinolysis, leading to fibrin accumulation, which is associated with thrombotic disease. The gene for PAI-1 may have a deletion/insertion polymorphism (4G/5G) located at -675 bp on chromosome 7 q 21.3-22.

**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.

**Subunit:** Interacts with VTN. Binds LRP1B; binding is followed by internalization and degradation.

**Subcellular Location:** Secreted protein.

**Tissue Specificity:** Found in plasma and platelets and in endothelial, hepatoma and fibrosarcoma cells.

**Ptm:** Inactivated by proteolytic attack of the urokinase-type (u-PA) and the tissue-type (TPA), cleaving the 369-Arg-|-Met-370 bond.

**Disease:** Defects in SERPINE1 are the cause of plasminogen activator inhibitor-1 deficiency (PAI-1 deficiency) [MIM:173360]. This deficiency is characterized by abnormal bleeding due to SERPINE1 defect in the plasma.

**Disease:** High concentrations of SERPINE1 have been associated with thrombophilia [MIM:188050]; an autosomal dominant disorder in which affected individuals are prone to develop serious spontaneous thrombosis.

**Similarity:** Belongs to the serpin family.

**OMIM:** 173360; gene. [NCBI / EBI] 188050; phenotype. [NCBI / EBI]

**PRODUCT INTERACTIONS:**

- Plasminogen Activator Inhibitor 1 (PAI-1) interacts with **VITRONECTIN, IgG** (GenWay Catalog #: 06-271-83423).
- Plasminogen Activator Inhibitor 1 (PAI-1) interacts with **VITRONECTIN, IgG** (GenWay Catalog #: 06-271-83423).
- Plasminogen Activator Inhibitor 1 (PAI-1) interacts with **Vitronectin [VNS8-1], IgG** (GenWay Catalog #: 06-271-83423).
- Plasminogen Activator Inhibitor 1 (PAI-1) interacts with **Vitronectin [BV1], IgG** (GenWay Catalog #: 06-271-83423).
- Plasminogen Activator Inhibitor 1 (PAI-1) interacts with **Vitronectin EIA Kit, ELISA_Kits** (GenWay Catalog #: 06-271-83423).
- Plasminogen Activator Inhibitor 1 (PAI-1) interacts with **Rabbit anti Vitronectin, IgG** (GenWay Catalog #: 06-271-83423).
- Plasminogen Activator Inhibitor 1 (PAI-1) interacts with **Rabbit anti Mouse Vitronectin, IgG** (GenWay Catalog #: 06-271-83423).
- Plasminogen Activator Inhibitor 1 (PAI-1) interacts with **Human Vitronectin, Native_Protein** (GenWay Catalog #: 06-271-83423).
- Plasminogen Activator Inhibitor 1 (PAI-1) interacts with **Vitronectin [VIT-2], IgG** (GenWay Catalog #: 06-271-83423).
- Plasminogen Activator Inhibitor 1 (PAI-1) interacts with **Vitronectin, IgG** (GenWay Catalog #: 06-271-83423).
- Plasminogen Activator Inhibitor 1 (PAI-1) interacts with **Vitronectin, IgG** (GenWay Catalog #: 06-271-83423).

**BACKGROUND REFERENCES for SERPINE1 PEPTIDE:**

Background references for antibody target are not specific to GenWay products


Endothelial plasminogen activator inhibitor (PAI): a new member of the Serpin gene family.


Order Confirmation: Sales order confirmations are sent out upon the receipt of all orders. Please contact GenWay if you do not receive a confirmation within 1 business day of submitting your order.

Precautions: SERPINE1 peptide is for in vitro research use only. Not for use in diagnostics or therapeutic procedures.

Important Notes: During shipment, small volumes of SERPINE1 peptide vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container’s cap. Actual concentration, volume and quantity will be printed on the vial’s label. Please refer to the vials label for this information.

Copyright: This GenWay TDS is copyrighted. This datasheet is produced based partially on data from Swiss-Prot/TrEMBL and NCBI. To better serve our clients with everything we know about SERPINE1 peptide, all related information, articles, resources about SERPINE1 peptide are being stored on our online database. Let us know if you have questions regarding this product.

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