

For Research Use Only

Recombinant Rat Serpin E1/PAI-1 protein (rFc Tag)



Catalog Number: Eg3256

Basic Information

Species:
Rat

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/μg protein, LAL method

Source:
HEK293-derived Rat PAI-1 protein Ser24-Pro402 (Accession# P20961) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
24617

Accession:
P20961

Predicted Molecular Mass:
68.9 kDa

SDS-PAGE:
70-80 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

PAI-1 (Plasminogen Activator Inhibitor-1), also known as Serpin E1, is a member of the serine protease inhibitor (SERPIN) family. PAI-1, a single-chain glycoprotein of approximately 52 kDa, acts as an inhibitor of tissue plasminogen activator and urokinase-type plasminogen activator and affects fibrinolysis and plays an important role in lung diseases. Because PAI-1 may display cell type-specific glycosylation and activity, the glycosylation pattern of PAI-1 may serve as a potential biomarker for predicting cellular dysfunction and risk of thrombosis. Recent studies have revealed that PAI-1 has a pro-tumorigenic role in human cancers by regulating angiogenesis and tumor cell survival. It is suggested that increased vascular PAI-1 can directly accelerate the process of atherosclerotic thrombosis by promoting the formation of neointimal plaques.

References

1. Altalhi R, et al. (2021) *Int J Mol Sci.* 22(6):3170.
2. Ali G, et al. (2023) *Stem Cell Res Ther.* 14(1):185.
3. Furuya H, et al. (2022) *Sci Rep.* 12(1):12186.

Synonyms

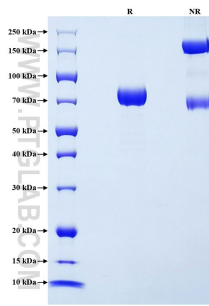
Endothelial plasminogen activator inhibitor, PAI, Pai1, PAI-1, Planh1

For technical support and original validation data for this product please contact

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



Purity of Recombinant Rat PAI-1 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.