For Research Use Only

Recombinant Mouse Serpin E1/PAI-1 protein (His Tag)

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Catalog Number: Eg1100

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
His Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

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

Source:
HEK293-derived Mouse Serpin E1 protein Thr23-Pro402 (Accession# P22777) with a His tag at the C-terminus.

GeneID:
18787

Accession:
P22777

Predicted Molecular Mass:
44.0 kDa

SDS-PAGE:
42-48 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℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ 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

Serpin E1, also known as plasminogen activator inhibitor 1 (PAI-1), is a protein that belongs to the serpin family of serine protease inhibitors. It is primarily produced by endothelial cells and plays a crucial role in the regulation of fibrinolysis by inhibiting the activity of plasminogen activators, such as tissue plasminogen activator (tPA) and urokinase (uPA). Serpin E1 is involved in a variety of physiological and pathological processes, including fibrinolysis, fibrosis, angiogenesis, wound healing, and the invasion and metastasis of tumor cells.

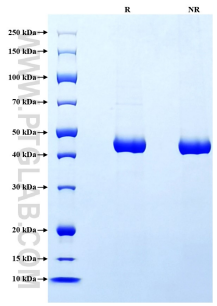
References

1. Catarinella G. et al. (2022) Cell Death Dis. 13(8):737.
2. Meltzer ME. et al. (2010) Blood. 116(1):113-21.
3. Janciauskiene S. et al. (2024) Biomed Pharmacother. 175:116618.

Synonyms

PAI-1, Serpine1, PAI 1, PAI1, Plasminogen activator inhibitor 1

Selected Validation Data



Purity of Recombinant Mouse Serpin E1 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.