

Recombinant Rat Serpin E1/PAI-1 Protein

Catalog No.: RP02838

Sequence Information

Species **Gene ID**
Rat 24617

Swiss Prot **Tags**
P20961 C-His

Synonyms

PAI,PAI-1,PAI1,PLANH1,SERPINE1;
Serpin E1

Product Information

Source **Purification**
HEK293 Cells ≥ 95 % as
 determined by
 SDS-PAGE.

Calculated MW **Observed MW**
44.2 kDa 49 kDa

Endotoxin

< 1 EU/μg of the protein by LAL
method.

Formulation

Lyophilized from a 0.22 μm filtered
solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial before opening.
Reconstitute to a concentration of
0.1–0.5 mg/mL in sterile distilled
water. Avoid vortex or vigorously
pipetting the protein. For long
term storage, it is recommended
to add a carrier protein or stabilizer
(e.g. 0.1% BSA, 5% HSA, 10% FBS
or 5% Trehalose), and aliquot the
reconstituted protein solution to
minimize free-thaw cycles.

Background

Serpins are a group of proteins with similar structures that were first identified as a set of proteins able to inhibit proteases. They are the largest and most diverse family of serine protease inhibitors which are involved in a number of fundamental biological processes such as blood coagulation, complement activation, fibrinolysis, angiogenesis, inflammation and tumor suppression and are expressed in a cell-specific manner. Serpin E1 is a secreted protein which belongs to the Serpin family. Serpin E1 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. Defects in SERPINE1 are characterized by abnormal bleeding due to Serpin E1 defect in the plasma. High concentrations of Serpin E1 have been associated with thrombophilia which is an autosomal dominant disorder in which affected individuals are prone to develop serious spontaneous thrombosis.

Basic Information

Description

Recombinant Rat Serpin E1/PAI-1 Protein is produced by HEK293 Cells expression system. The target protein is expressed with sequence (Ser24–Pro402) of Rat Serpin F1/PEDF (Accession #NP_036752.1) fused with a 6×His tag at the C-terminus.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at –20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

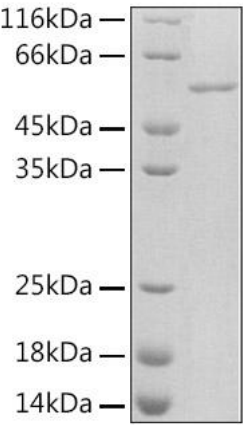
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Validation Data



Recombinant Rat Serpin E1/PAI-1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.