

Rat PAI-1 Protein

Cat. No. PAI-RM101

Description

Source	Recombinant Rat PAI-1 Protein is expressed from HEK293 with His tag at the C-terminus. It contains Ser24-Pro402.
Accession	P20961
Molecular Weight	The protein has a predicted MW of 43.73 kDa. Due to glycosylation, the protein migrates to 48-60 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

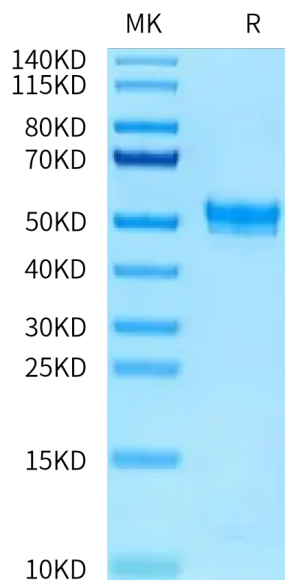
Formulation	Lyophilized from 0.22 μm filtered solution in 50 mM HEPES, 300 mM NaCl, 1 mM TCEP (pH 7.5). Normally 8% mannitol is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

PAI-1 (plasminogen activator inhibitor-1) is a member of plasminogen cascade with an inhibitory role in plasmin activation. PAI-1 is an important regulator of the fibrinolytic process and levels of this antifibrinolytic protein are elevated in diabetes and insulin resistant states.

Assay Data

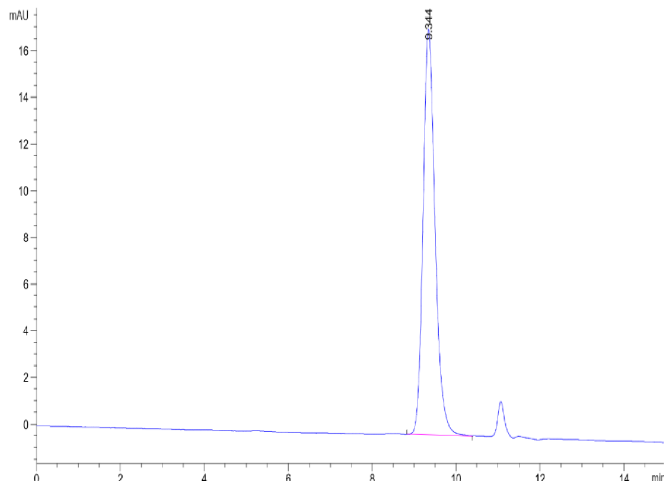
Bis-Tris PAGE



Rat PAI-1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

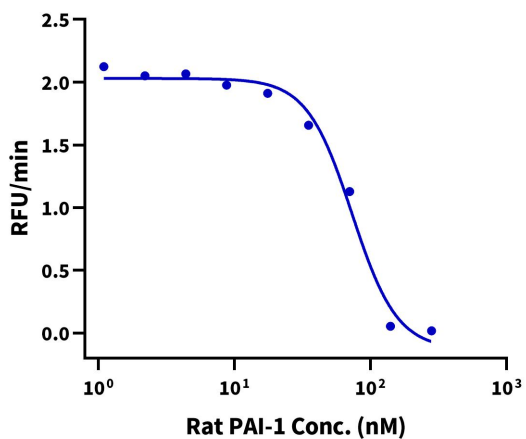
Assay Data



The purity of Rat PAI-1 is greater than 95% as determined by SEC-HPLC.

Bioactivity Data

Recombinant Rat PAI-1 Enzyme Activity



Measured by its ability to inhibit uPA cleavage of a peptide substrate, N-carbobenzyloxy-Gly-Gly-Arg-7-amido-4-methylcoumarin (Z-GGR-AMC). The IC₅₀ value is < 80 nM.