

Human PAI-1 Protein

Cat. No. PAI-HM101



Description

Source	Recombinant Human PAI-1 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Val24-Pro402.
Accession	P05121-1
Molecular Weight	The protein has a predicted MW of 43.86 kDa. Due to glycosylation, the protein migrates to 45-55 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

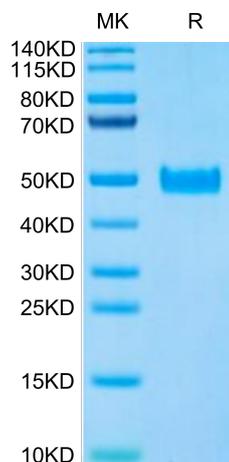
Formulation	Lyophilized from 0.22 µm filtered solution in 50mM NaAC, 0.1M NaCl, 100mM L-arginine (pH 5.5). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in 50mM NaAC, 0.1M NaCl, 100mM L-arginine (pH 5.5)..
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days 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.

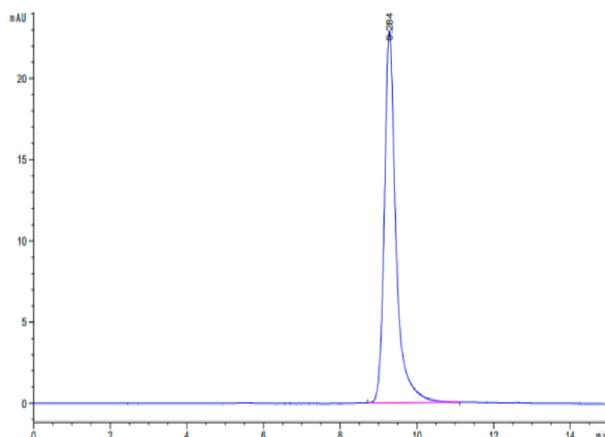
Assay Data

Tris-Bis PAGE



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

SEC-HPLC

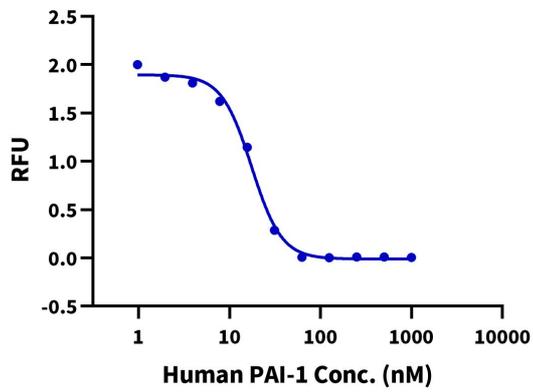


The purity of Human PAI-1 is greater than 95% as determined by SEC-HPLC.

Assay Data

Bioactivity Data

Recombinant Human 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 < 35 nM.