Human PDGF R alpha/PDGFRA Protein

Cat. No.   PFR-HM40A

KACTUS

Description

Source	Recombinant Human PDGF R alpha/PDGFRA is expressed from HEK293 with His tag and Avi tag at the C-Terminus.
	It contains Gln24-Glu524.
Accession	P16234
Molecular Weight	The protein has a predicted MW of 59.2 kDa. Due to glycosylation, the protein migrates to 70-83 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU 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 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
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

Platelet-derived growth factor is commonly known as a mitogen. Many research data suggest a role for PDGF-beta R in the mitogenic response of mesangial cells. There are four members of PDGF family known as PDGF-A chain, PDGF-B chain, PDGF-C chain and PDGF-D chain, which in active forms are dimers. As far as two receptors PDGF-alpha R and PDGF-beta R are known to bind PDGF.
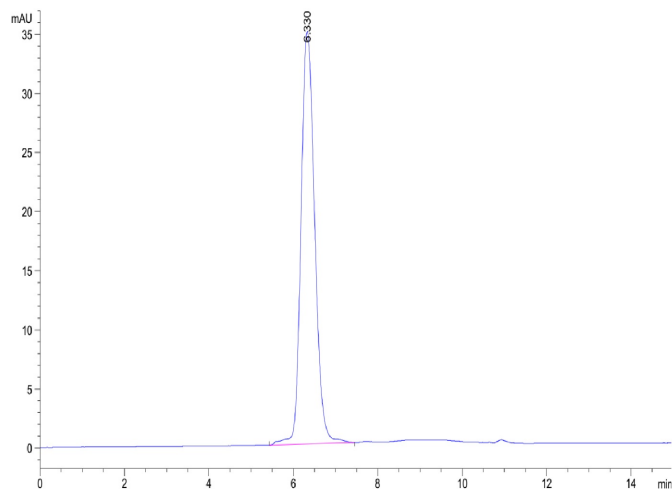
Assay Data

Bis-Tris PAGE
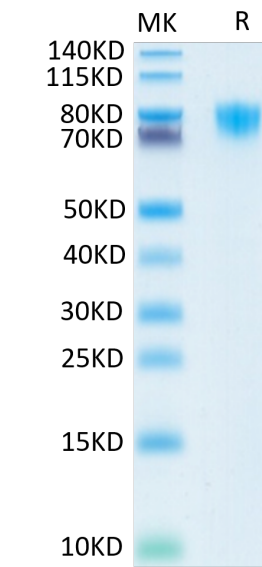
Human PDGF R alpha on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.
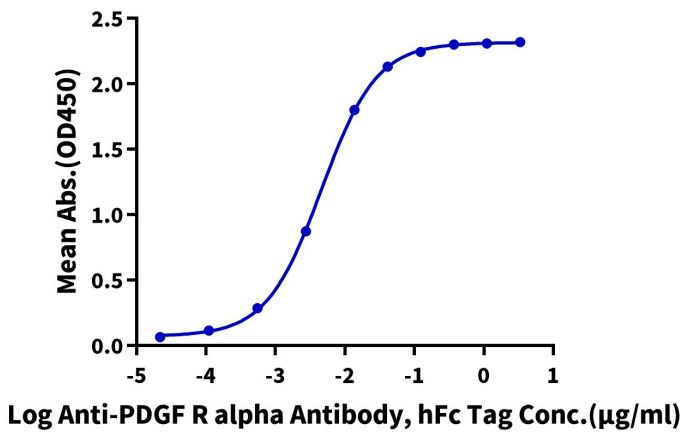
SEC-HPLC

Assay Data

The purity of Human PDGF R alpha is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human PDGF R alpha, His Tag ELISA

0.05μg Human PDGF R alpha, His Tag Per Well

Immobilized Human PDGF R alpha, His Tag at 0.5μg/ml (100μl/Well) on the plate. Dose response curve for Anti-PDGF R alpha Antibody, hFc Tag with the EC50 of 4.6ng/ml determined by ELISA.