

Biotinylated Human PDGF R beta/CD140b Protein



Cat. No. PGF-HM4RBB

Description

Source	Recombinant Biotinylated Human PDGF R beta/CD140b Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.
	It contains Leu33-Phe530.
Accession	P09619
Molecular Weight	The protein has a predicted MW of 59 kDa. Due to glycosylation, the protein migrates to 78-115 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

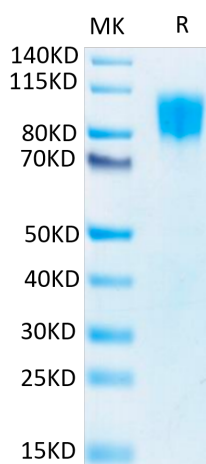
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
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

PDGF is a major serum mitogen that can exist as a homo or hetero-dimeric protein consisting of disulfide-linked PDGF-A and PDGF-B chains. The PDGF-AA, PDGF-BB and PDGF-AB isoforms have been shown to bind to two distinct cell surface PDGF receptors with different affinities. Where as PDGF R alpha binds all three PDGF isoforms with high affinity, PDGF R beta binds PDGF-BB only with high-affinity. PDGF R plays an essential role in blood vessel development by promoting proliferation, migration and recruitment of pericytes and smooth muscle cells to endothelial cells. Plays a role in the migration of vascular smooth muscle cells and the formation of neointima at vascular injury sites.

Assay Data

Tris-Bis PAGE



Biotinylated Human PDGF R beta on Tris-Bis PAGE under reduced conditions. The purity is greater than 95%.

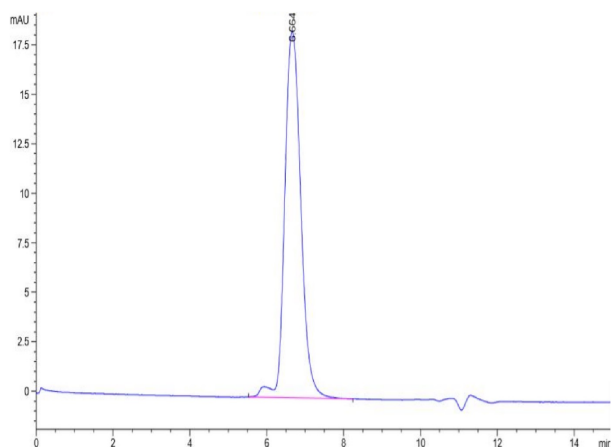
SEC-HPLC

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Assay Data



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

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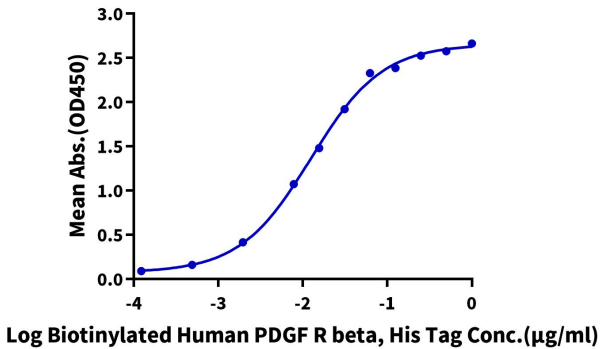


Assay Data

ELISA Data

Biotinylated Human PDGF R beta, His Tag ELISA

0.2µg Anti-PDGFRB Antibody, hFc Tag Per Well



Immobilized Anti-PDGF R beta Antibody, hFc Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human PDGF R beta, His Tag with the EC50 of 12.5ng/ml determined by ELISA.