

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

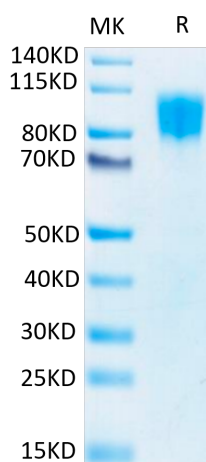
| | |
|-----------------------|---|
| Formulation | Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| Reconstitution | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water. |
| Storage | -20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state 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

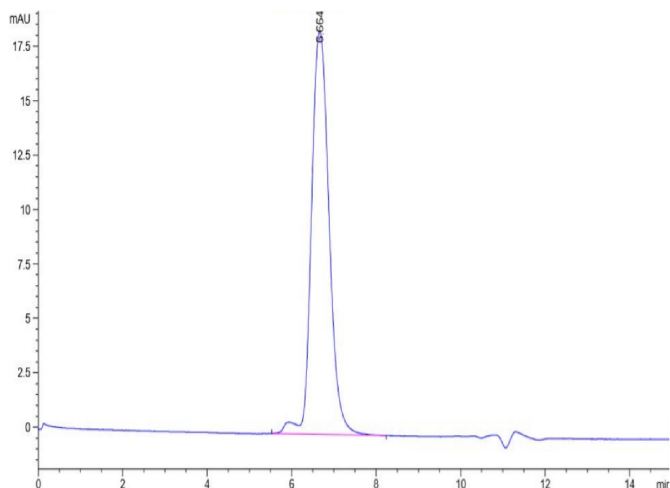
Tris-Bis PAGE



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

SEC-HPLC

Assay Data

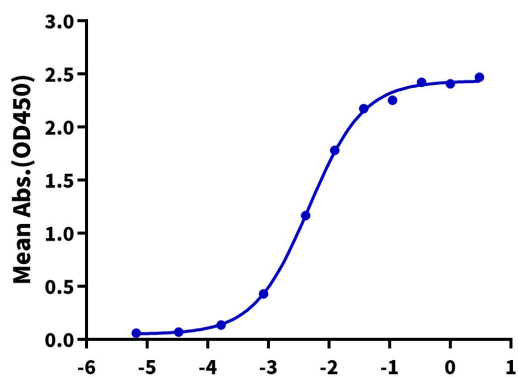


The purity of Biotinylated Human PDGF R beta is greater than 95% as determined by SEC-HPLC.

ELISA Data

Biotinylated Human PDGF R beta, His Tag ELISA

0.2µg Anti-PDGF R beta 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 4.6ng/ml determined by ELISA.