

Cat. No. PGF-HM4RB-UL

Description	
Source	Recombinant 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 Bis-Tris PAGE result.
Endotoxin	Less than 0.01 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**

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**

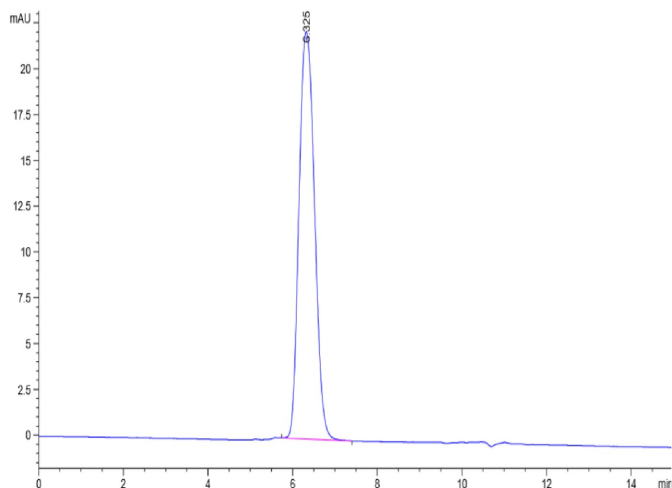
**Bis-Tris PAGE**



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

**SEC-HPLC**

Assay Data

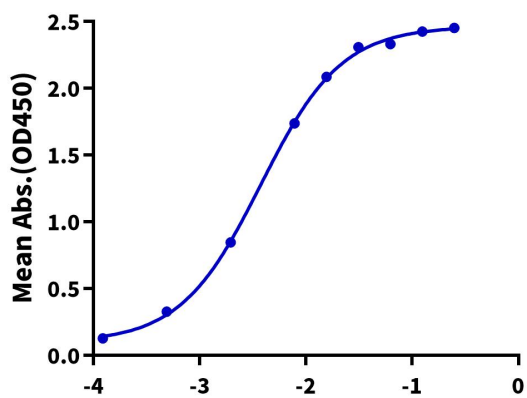


The purity of Human PDGF R beta is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human PDGF R beta, His Tag ELISA

0.05µg Human PDGF R beta, His Tag Per Well



Immobilized Human PDGF R beta, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-PDGF R beta Antibody, hFc Tag with the EC50 of 3.8ng/ml determined by ELISA.