

Biotinylated Recombinant Human PDGFR-beta/CD140b Protein

Catalog No.: RP02478B **Recombinant**

Sequence Information

| Species | Gene ID | Swiss Prot |
|---------|---------|------------|
| Human | 5159 | P09619 |

Tags

C-His&Avi

Synonyms

CD140B;IBGC4;IMF1;JTK12;KOGS;PDGFR;
PDGFR-1;PDGFR1;PENTT;PDGF Receptor
beta;PDGFRB;PDGFR beta

Product Information

| Source | Purification |
|--------------|------------------------------------|
| HEK293 cells | > 95% by Tris-Bis PAGE and HPLC |

| Calculated MW | Observed MW |
|---------------|-------------|
| 59 kDa | 78-115 kDa |

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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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.

Basic Information

Description

Biotinylated Recombinant Human PDGF R beta Protein is produced by Expi293 expression system. The target protein is expressed with sequence (Leu33-Phe530) of Human PDGF R beta fused with His tag and Avi tag at the C-terminal.

Bio-Activity

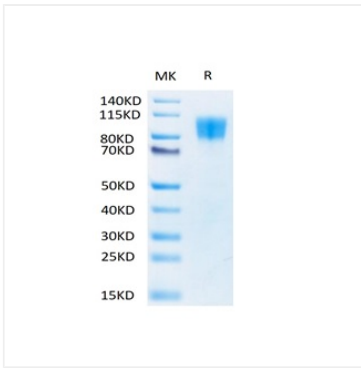
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80°C up to 1 year from the date of receipt.

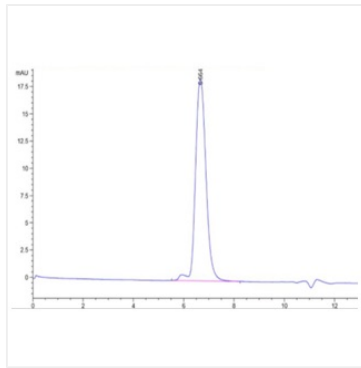
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



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



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