Canine PDGF R beta/CD140b Protein

Cat. No. PGF-DM1RB



| Description | |
|---------------------|--|
| Source | Recombinant Canine PDGF R beta/CD140b Protein is expressed from HEK293 with His tag at the C-Terminus. |
| | It contains Gly32-Val532. |
| Accession | Q6QNF3 |
| Molecular Weight | The protein has a predicted MW of 57.25 kDa. Due to glycosylation, the protein migrates to 70-100 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

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|---------------------------|---|
| 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 receipt20 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 |

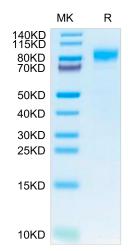
optimal storage. Please minimize freeze-thaw cycles.

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

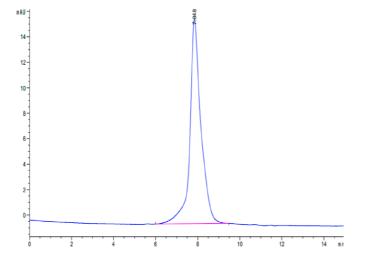


SEC-HPLC

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

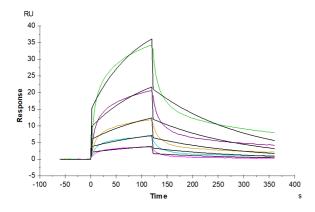


Assay Data



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

SPR Data



Human PDGFB, His Tag immobilized on CM5 Chip can bind Canine PDGF R beta, His Tag with an affinity constant of 0.203 μ M as determined in SPR assay (Biacore T200).