

PDGF R beta/CD140b Protein, Canine, Recombinant (His)

General Information

Synonyms:	JTK12;PDGF R β ;PDGFR- β ;PDGFR;PDGFRB;PDGF R beta;PDGF R β /CD140b;PDGFR1;CD140B;PDGFR-2
Protein Construction:	Gly32-Val532
Species:	Canine
Expression Host:	HEK293 Cells
Accession:	Q6QNF3
Molecular Weight:	57.25 kDa (predicted). Due to glycosylation, the protein migrates to 70-100 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	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.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1 EU/ μ g by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Shipping:

In general, Lyophilized powders are shipping with blue ice.

Protein 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.

Reference

PDGFR blockade is a rational and effective therapy for NPM-ALK-driven lymphomas[J]. Nature Medicine, 2012, 18 (11):1699-1704.

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