

PDGF R beta/CD140b Protein, Human, Recombinant (His & Avi)

General Information

Synonyms:	PDGFR1;CD140B;PDGFR-2;PDGF R β /CD140b;PDGF R beta;PDGFRB;PDGFR- β ;JTK12;PDGFR;PDGF R β
Protein Construction:	Leu33-Phe530
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P09619
Molecular Weight:	59 kDa (predicted). Due to glycosylation, the protein migrates to 78-115 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Human PDGF R beta, His Tag at 0.5 μ g/ml (100 μ l/well) on the plate. Dose response curve for Anti-PDGF R beta Antibody, hFc Tag with the EC50 of 10.9ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ μ g of the protein as determined 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.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry 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

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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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