

PDGF R alpha/PDGFR α Protein, Human, Recombinant (His & Avi), Biotinylated

General Information

Synonyms:	RHEPDGFRA;PDGFRA;PDGF R α /PDGFRA Protein, Human, Recombinant (His & Avi), Biotinylated;CD140A;MGC74795;PDGFR-2;PDGFR2
Protein Construction:	Gln24-Glu524
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P16234
Molecular Weight:	59.2 kDa (predicted). Due to glycosylation, the protein migrates to 70-83 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Anti-PDGF R alpha Antibody, hFc Tag T at 2 μ g/ml (100 μ l/Well) on the plate. Dose response curve for Biotinylated Human PDGF R alpha, His Tag with the EC50 of 0.16 μ g/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

Platelet-derived growth factor is commonly known as a mitogen. Many research data suggest a role for PDGF-beta R in the mitogenic response of mesangial cells. There are four members of PDGF family known as PDGF-A chain, PDGF-B chain, PDGF-C chain and PDGF-D chain, which in active forms are dimers. As far as two receptors PDGF-

alpha R and PDGF-beta R are known to bind PDGF.

Reference

Shi Y, et al. Gli1 identifies osteogenic progenitors for bone formation and fracture repair. Nat Commun. 2017;8(1):2043. Published 2017 Dec 1 doi:10.1038/s41467-017-02171-2

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