

Recombinant Human PDGFR-beta/CD140b(E241D) Protein

Catalog No.: RP00126 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	5159	P09619

Tags

C-hFc&His

Synonyms

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

Product Information

Source	Purification
HEK293 cells	≥ 90% as determined by SDS-PAGE; ≥ 90% as determined by HPLC.

Calculated MW	Observed MW
82.86 kDa	110-140

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial 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.

Background

The protein is a cell surface tyrosine kinase receptor for members of the platelet-derived growth factor family. These growth factors are mitogens for cells of mesenchymal origin. The identity of the growth factor bound to a receptor monomer determines whether the functional receptor is a homodimer or a heterodimer, composed of both platelet-derived growth factor receptor alpha and beta polypeptides. This gene is flanked on chromosome 5 by the genes for granulocyte-macrophage colony-stimulating factor and macrophage-colony stimulating factor receptor; all three genes may be implicated in the 5-q syndrome. A translocation between chromosomes 5 and 12, that fuses this gene to that of the translocation, ETV6, leukemia gene, results in chronic myeloproliferative disorder with eosinophilia.

Basic Information

Description

Recombinant Human PDGFR-beta/CD140b(E241D) Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Leu33-Phe530 (Glu241Asp)) of human PDGFRB/CD140b (Accession #NP_002600.1) fused with an Fc, 6xHis tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized recombinant Human PDGF-B at 2 μg/mL (100 μL/well) can bind recombinant Human PDGFRB. The EC₅₀ of Human PDGFRB is 30.48 ng/mL.

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.

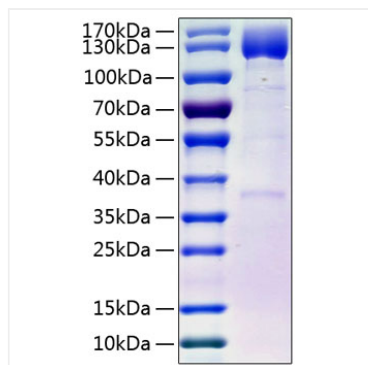
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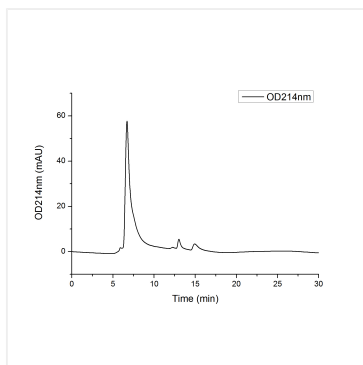
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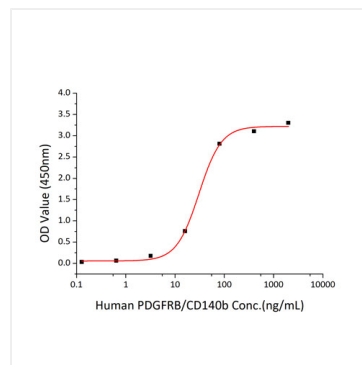
Validation Data



Recombinant Human PDGFR-beta/CD140b(E241D) Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



The purity of Human PDGFRB/CD140b Protein (Cat.RP00126) was greater than 90% as determined by SEC-HPLC.



Immobilized recombinant Human PDGF-B at 2 μ g/mL (100 μ L/well) can bind recombinant Human PDGFRB, the EC₅₀ of Human PDGFRB is 30.48 ng/mL.