

# 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% by SDS-PAGE.

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.

## Contact

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## 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, 6×His 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 EC<sub>50</sub> of Human PDGFRB is 30.48 ng/mL.

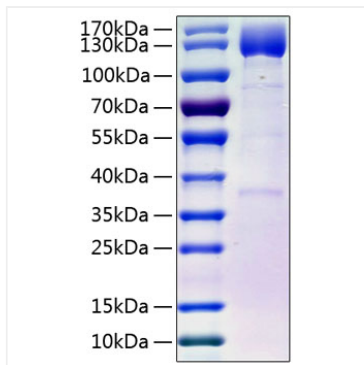
### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

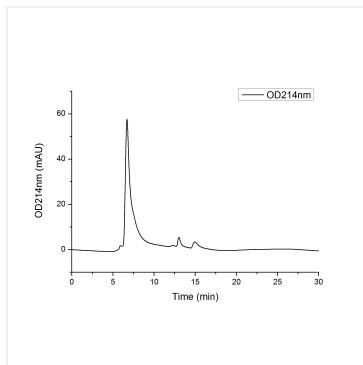
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

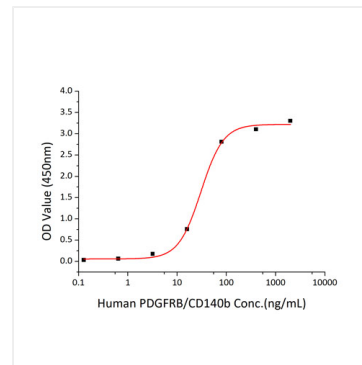
## Validation Data



Recombinant Human PDGFR-beta/CD140b(E241D) Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 110-140 kDa.



The purity of Human PDGFRB/CD140b Protein (Cat.RP00126) was greater than 95% as determined by SEC-HPLC.



Immobilized recombinant Human PDGF-B at 2 $\mu$ g/mL (100  $\mu$ L/well) can bind recombinant Human PDGFRB, the EC<sub>50</sub> of Human PDGFRB is 30.48 ng/mL.