

Recombinant Human PDGFR-beta/CD140b (E241D) Protein

Catalog No.: RP00126

Sequence Information

Species	Gene ID
Human	5159
Swiss Prot	Tags
P09619	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, 6×His tag at the C-terminus.

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.

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

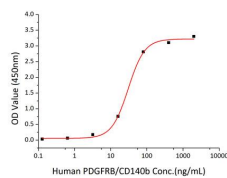
Contact

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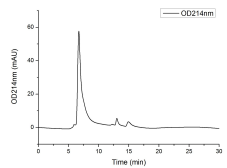
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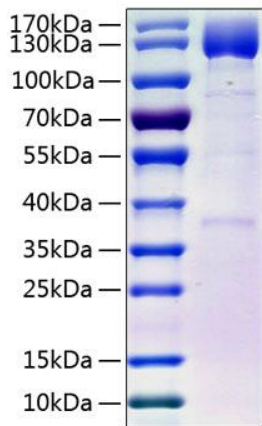
Validation Data



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



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



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