

Recombinant Human PDGFR-alpha/CD140a Protein

Catalog No.: RP00116 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	5156	P16234

Tags

C-hFc&His

Synonyms

PDGFRA;CD140A;PDGFR-2;PDGFR2;GAS9
;RHEPDGFRA

Product Information

Source	Purification
HEK293 cells	> 97% by SDS-PAGE.

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

This 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. Studies suggest that this gene plays a role in organ development, wound healing, and tumor progression. Mutations in this gene have been associated with idiopathic hypereosinophilic syndrome, somatic and familial gastrointestinal stromal tumors, and a variety of other cancers.

Basic Information

Description

Recombinant Human PDGFR-alpha/CD140a Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Gln24-Glu524) of human PDGFRA/CD140a (Accession #NP_006197.1) 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 PDGFRA, the EC₅₀ of Human PDGFRA is 109 ng/mL.

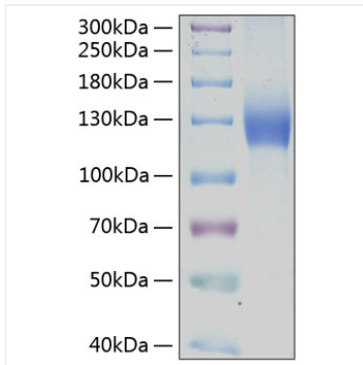
Storage

Store the lyophilized protein at -20°C to -80 °C for long term.

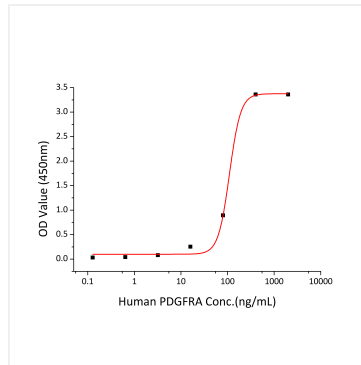
After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human PDGFR-alpha/CD140a Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 110-130 kDa.



Immobilized recombinant Human PDGF-B at 2 μ g/mL (100 μ L/well) can bind recombinant Human PDGFRA, the EC₅₀ of Human PDGFRA is 109 ng/mL.