

# Recombinant Human PDGFRB/CD140b Protein (His Tag)



Catalog Number:PKSH031557

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

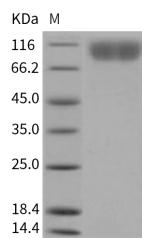
## Description

|                                    |  |
|------------------------------------|--|
| <b>Synonyms</b>                    | Platelet-Derived Growth Factor Receptor Beta;PDGF-R-Beta;PDGFR-Beta;Beta Platelet-Derived Growth Factor Receptor;Beta-Type Platelet-Derived Growth Factor Receptor;CD140 Antigen-Like Family Member B;Platelet-Derived Growth Factor Receptor 1;PDGFR-1;CD140b;PDGFRB;PDGFR;PDGFR1;CD140B;IBGC 4;IMF1;JTK12;KOGS;PENTT |
| <b>Species</b>                     | Human  |
| <b>Expression Host</b>             | HEK293 Cells   |
| <b>Sequence</b>                    | Met 1-Lys 531  |
| <b>Accession</b>                   | NP_002600.1  |
| <b>Calculated Molecular Weight</b> | 57.6 kDa   |
| <b>Observed molecular weight</b>   | 95-100 kDa   |
| <b>Tag</b>                         | C-His  |
| <b>Bioactivity</b>                 | Immobilized PDGFR $\beta$ -His at 10 $\mu$ g/ml (100 $\mu$ l/well) can bind Cynomolgus PDGFB, The EC50 of Cynomolgus PDGFB is 3-8 ng/ml.   |

## Properties

|                       |   |
|-----------------------|---|
| <b>Purity</b>         | > 90 % as determined by reducing SDS-PAGE.  |
| <b>Endotoxin</b>      | < 1.0 EU per $\mu$ g of the protein as determined by the LAL method.  |
| <b>Storage</b>        | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |
| <b>Shipping</b>       | This product is provided as lyophilized powder which is shipped with ice packs.   |
| <b>Formulation</b>    | Lyophilized from sterile PBS, pH 7.4<br>Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual.            |
| <b>Reconstitution</b> | Please refer to the printed manual for detailed information.  |

## Data



> 90 % as determined by reducing SDS-PAGE.

## Background

The cluster of differentiation (CD) system is commonly used as cell markers in immunophenotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules which associating with the immune

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function of the cell. There are more than 320 CD unique clusters and subclusters have been identified. Some of the CD molecules serve as receptors or ligands important to the cell through initiating a signal cascade which then alter the behavior of the cell. Some CD proteins do not take part in cell signal process but have other functions such as cell adhesion. CD140b, also known as PDGFRB, is a member of the CD system. CD140b is a cell surface tyrosine kinase receptor essential for development interacting with the platelet-derived growth factors (PDGFs) which serves as mitogens for mesenchymal cells. CD140b can bind with platelet-derived growth factor (PDGF)-B, that are secreted by tumors and phosphorylation of PDGFR- $\beta$  was correlated with depth of cancer invasion at statistically significant level.

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