

## Recombinant Human PDGFRa/CD140a Protein (His Tag)

**Catalog Number:** PKSH031528

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

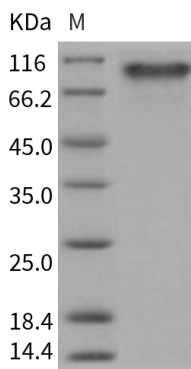
### Description

|                      |  |
|----------------------|--|
| <b>Species</b>       | Human  |
| <b>Source</b>        | HEK293 Cells-derived Human PDGFRa/CD140a protein Met 1-Glu 524, with an C-terminal His |
| <b>Calculated MW</b> | 57.7 kDa   |
| <b>Observed MW</b>   | 90-100 kDa   |
| <b>Accession</b>     | NP_006197.1  |
| <b>Bio-activity</b>  | Measured by its ability to bind human PDGFC-Fc in functional ELISA.                    |

### Properties

|                       |   |
|-----------------------|---|
| <b>Purity</b>         | > 97 % as determined by reducing SDS-PAGE.  |
| <b>Endotoxin</b>      | < 1.0 EU per µg 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% Tween 80 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



> 97 % as determined by reducing SDS-PAGE.

### Background

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PDGFRA; also known as CD140a; together with the structurally homolog protein PDGFRB (CD140b); are cell surface receptors for members of the platelet-derived growth factor family. They are members of the class III subfamily of receptor tyrosine kinase (RTKs) with the similar structure characteristics of five immunoglobulin-like domains in their extracellular region and a split kinase domain in their intracellular region. PDGFRA is expressed in oligodendrocyte progenitor cells and mesothelial cell; and binds all three ligand isoforms PDGF-AA; PDGF-BB and PDGF-AB with high affinity; whereas PDGFRB dose not bind PDGF-AA. PDGFRA plays an essential role in regulating proliferation; chemotaxis and migration of mesangial cells. Recent studies have indicated that PDGFRA acts as a critical mediator of signaling in testis organogenesis and Leydig cell differentiation; and in addition; particularly important for kidney development. Additionally; PDGFRA is involved in tumor angiogenesis and maintenance of the tumor microenvironment and has been implicated in development and metastasis of Hepatocellular carcinoma (HCC). PDGFRA may represent a potential therapeutic target in thymic tumours. PDGFRA gene amplification rather than gene mutation may be the underlying genetic mechanism driving PDGFRA overexpression in a portion of gliomas.

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