

## Active Recombinant Mouse Pdgfra Protein, Fc-tagged

**Cat. No.** Pdgfra-1774M    **Lot. No.** (See product label)

### SPECIFICATION

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| <b>Product Overview</b>     | Recombinant mouse PDGF R alpha (Leu25 - Glu524) protein fused with the Fc region of human IgG1 at the C-terminus was expressed in mouse myeloma cell line.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>              | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>               | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>        | 25-524 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>          | This gene encodes a member of the receptor tyrosine kinase family of proteins. Binding of platelet-derived growth factor protein ligands to this receptor triggers receptor dimerization and autophosphorylation, resulting in the activation of several downstream signaling pathways. Signaling through the encoded receptor plays a role in gastrulation and the development of nearly all organ systems. Mice lacking a functional copy of this gene reportedly exhibit defects in lung, skeleton, testis and the central nervous system, and die soon after birth. Alternative splicing and intronic polyadenylation of gene transcripts have been implicated in muscle regeneration and fibrosis in adult mice. |
| <b>Predicted N Terminal</b> | Leu25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Bio-activity</b>         | Measured by its ability to inhibit the biological activity of PDGF-AB or PDGF-AA using NR6R-3T3 mouse fibroblast cells. Raines, E.W. et al. (1985) Methods Enzymol. 109:749. The ED50 for this effect is 0.01-0.04 µg/mL in the presence of 10 ng/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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|                       |                                                                                                                                                                                                                                                                         |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | recombinant human PDGF-AA.                                                                                                                                                                                                                                              |
| <b>Molecular Mass</b> | 82.5 kDa                                                                                                                                                                                                                                                                |
| <b>Endotoxin</b>      | <0.10 EU per 1 µg of the protein by the LAL method.                                                                                                                                                                                                                     |
| <b>Purity</b>         | >95%, by SDS-PAGE under reducing conditions and visualized by silver stain                                                                                                                                                                                              |
| <b>Storage</b>        | Avoid repeated freeze-thaw cycles.<br>12 months from date of receipt, -20 to -70 centigrade as supplied.<br>1 month, 2 to 8 centigrade under sterile conditions after reconstitution.<br>3 months, -20 to -70 centigrade under sterile conditions after reconstitution. |
| <b>Storage Buffer</b> | Lyophilized from a 0.2 µm filtered solution in PBS.                                                                                                                                                                                                                     |
| <b>Reconstitution</b> | Reconstitute at 100 µg/mL in sterile PBS.                                                                                                                                                                                                                               |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | <a href="#">Pdgfra</a>                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Official Symbol</b> | <a href="#">Pdgfra platelet derived growth factor receptor, alpha polypeptide [ Mus musculus (house mouse) ]</a>                                                                                                                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>        | alpha-type platelet-derived growth factor receptor; CD140 antigen-like family member A; CD140a antigen; CD140a; EC 2.7.10; EC 2.7.10.1; MGC74795; PDGF R alpha; PDGFR alpha; PDGFR2; PDGFRA; PDGFRA/BCR fusion; PDGF-R-alpha; platelet-derived growth factor receptor, alpha polypeptide; rearranged-in-hypereosinophilia-platelet derived growth factor receptor alphafusion protein; RHEPDGFRA; Pdgfra; platelet derived growth factor receptor, alpha polypeptide |

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|----------------|-----------|
| Gene ID        | 18595     |
| mRNA Refseq    | NM_011058 |
| Protein Refseq | NP_035188 |
| UniProt ID     | P26618    |

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