

Recombinant Mouse Pdgfc Protein, His-tagged

Cat. No. PDGFC-518M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Pdgfc (NP_064355.1) (Val235-Gly345) was expressed with a polyhistidine tag at the N-terminus.
Species	Mouse
Source	Yeast
ProteinLength	Val235-Gly345
Description	PDGF-C is a member of the PDGF/VEGF family of growth factors with a unique domain organization and expression pattern. Platelet-derived growth factor receptors (PDGFRs) are catalytic receptors that have intracellular tyrosine kinase activity. They have roles in the regulation of many biological processes including embryonic development, angiogenesis, cell proliferation and differentiation, and contribute to the pathophysiology of some diseases, including cancer. There are two isoforms of the PDGFR receptor; PDGFRalpha and PDGFRbeta, which can form homo- or heterodimers. The endogenous PDGFR ligands are PDGF-A,-B,-C and-D, which induce receptor dimerization and transphosphorylation at specific tyrosine residues upon binding. This activates the intracellular kinase activity, initiating intracellular signaling through the MAPK, PI 3-K and PKCgamma pathways. PDGF-C acts as a specific ligand for alpha platelet-derived growth factor receptor homodimer, and alpha and beta heterodimer. Binding of this growth factor to its affinity receptor elicits a variety of cellular responses. PDGF-C Appears to be involved in the three stages of wound healing: inflammation, proliferation and remodeling. Involved in

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fibrotic processes, in which transformation of interstitial fibroblasts into myofibroblasts plus collagen deposition occurs.

Predicted N Terminal

His

Form

Lyophilized from sterile PBS, pH 7.4. Normally 5 %- 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

Molecular Mass

The recombinant mouse Pdgfc consists of 126 amino acids and predicts a molecular mass of 14.4 kDa.

Endotoxin

< 1.0 EU per µg protein as determined by the LAL method.

Purity

> 95% as determined by SDS-PAGE.

Storage

Samples are stable for up to twelve months from date of receipt at -70 centigrade. Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name

Pdgfc platelet-derived growth factor, C polypeptide [*Mus musculus*]

Official Symbol

PDGFC

Synonyms

PDGFC; platelet-derived growth factor, C polypeptide; platelet-derived growth factor C; SCDGF; VEGF-E; fallotin; spinal cord-derived growth factor; PDGF-C; A1647969; 1110064L01Rik;

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Gene ID	54635
mRNA Refseq	NM_019971
Protein Refseq	NP_064355

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