

37-1352: Mouse PDGF-C / SCDGF Recombinant Protein (Fc Tag)(Discontinued)

Reactivity : Mouse

Alternative Name : 1110064L01Rik Protein, Mouse; A1647969 Protein, Mouse; PDGF-C Protein, Mouse

Description

Source : HEK293 Cells

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

Product Info

Amount : C / SCDGF Recombinant Protein (Fc Tag)(Discontinued) / 20 µg

Purification : > 80 % as determined by SDS-PAGE

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

Storage condition : Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Amino Acid : Val235-Gly345

Application Note

1. Measured by its binding ability in a functional ELISA. 2. Immobilized mouse PDGF-C at 10 Åµg/mL (100 ÅµL/well) can bind human PDGFRA, The EC50 of human PDGFRA is 0.71 Åµg/mL. 3. Measured in a cell proliferation assay using Balb/3T3 mouse embryonic fibroblast cells. The ED50 for this effect is typically 0.5-2 Åµg/mL.

Endotoxin : < 1.0 EU per Åµg of the protein as determined by the LAL method.

Other pack size also available.

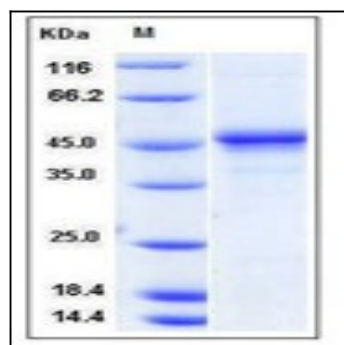


Fig 1: Mouse PDGF-C / SCDGF Recombinant Protein (Fc Tag)

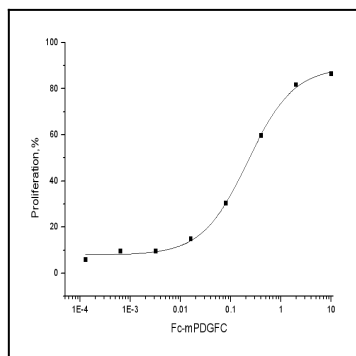


Fig 2: Mouse PDGF-C / SCDGF Recombinant Protein (Fc Tag) measured in a cell proliferation assay using Balb/3T3 mouse embryonic fibroblast cells