PDGFC
Recombinant Human PDGF-C (His Tag)

Catalog No.	CRH436A-His2 CRH436B-His2	**Quantity:**	100 µg 200 µg

Alternate Names: Platelet-derived growth factor C, PDGF-C, Fallotein, Spinal cord-derived growth factor, SCDGF, VEGF-E, Platelet-derived growth factor C, latent form, PDGFC latent form, Platelet-derived growth factor C, receptor-binding form, PDGFC receptor-binding form

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

UniProt ID: Q9NRA1

Accession Number: NP_057289.1

Protein Construction: A DNA sequence encoding the mature form of human PDGF-C (Val 235-Gly 345) was fused with a polyhistidine tag at the C-terminus and a signal peptide at the N-terminus.

Source: Baculovirus-Insect Cells

Molecular Weight: The recombinant human PDGF-C consists of 121 amino acids and predicts a molecular mass of 13.8 kDa. It migrates as an approximately 20 KDa band in SDS-PAGE under reducing conditions.

Formulation: Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 7.0, 10% gly
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

Purity: > 84 % as determined by SDS-PAGE.

Endotoxin Level: < 1.0 EU per µg of the protein as determined by the LAL method

Biological Activity: Testing in progress

Cell Sciences®
65 Parker Street
Unit 11
Newburyport, MA 01950

Toll Free: 888-769-1246
Phone: 978-572-1070
Fax: 978-992-0298

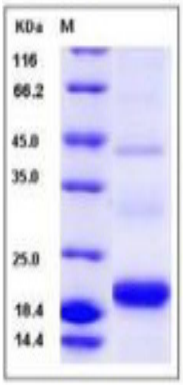
E-mail: info@cellsciences.com
Website: www.cellsciences.com

Predicted N-terminal: Ala 18

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial.
DO NOT VORTEX. Allow several minutes for complete reconstitution.

Storage & Stability: Stable for up to 1 year from date of receipt at -20°C to -80°C
After reconstitution, store working aliquots at -20°C to -80°C.
Avoid repeated freeze-thaw cycles.

SDS-PAGE



NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

Cell Sciences®
65 Parker Street
Unit 11
Newburyport, MA 01950

Toll Free: 888-769-1246
Phone: 978-572-1070
Fax: 978-992-0298

E-mail: info@cellsciences.com
Website: www.cellsciences.com