

PDGFC

Recombinant Human PDGF-C (His Tag)

Catalog No.	CRH436A-His CRH436B-His	Quantity:	20 µg 100 µg
Alternate Names:	Platelet-derived growth factor C, PDGF-C, Fallotein, Spinal cord-derived growth factor, SCDGF, VEGF-E		
Description:	<p>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.</p>		
UniProt ID:	Q9NRA1		
Accession Number:	NP_057289.1		
Protein Construction:	A DNA sequence encoding the human PDGFC (Val235-Gly345) was expressed with a polyhistidine tag at the N-terminus.		
Source:	Yeast		
Molecular Weight:	The recombinant human PDGFC consists of 126 amino acids and predicts a molecular mass of 14.4 kDa.		
Formulation:	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization		
Purity:	> 97 % as determined by SDS-PAGE.		
Biological Activity:	Testing in progress		
Predicted N-terminal:	His		
Reconstitution:	<p>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</p>		
Storage & Stability:	<p>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.</p>		



cellsciences.com

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