

Recombinant Human PDGFC Protein, His-tagged

Cat. No. PDGFC-517H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human PDGFC (NP_057289.1) (Val235-Gly345) was expressed with a polyhistidine tag at the N-terminus.

Species Human

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 pr centigradeesses, in which transformation of interstitial fibroblasts into myofibroblasts plus collagen deposition centigradeeurs.
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 human 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	> 97 % 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 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	PDGFC platelet derived growth factor C [Homo sapiens]
Official Symbol	56034
Synonyms	PDGFC; platelet derived growth factor C; platelet-derived growth factor C; fallotein; SCDGF; PDGF-C; VEGF-E; spinal cord-derived growth factor; secretory growth factor-like protein; FALLOTEIN;
Gene ID	56034

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mRNA Refseq	NM_016205
Protein Refseq	NP_057289
MIM	608452
UniProt ID	Q9NRA1

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