Recombinant Human Platelet-derived Growth Factor-CC (rHuPDGF-CC)

PrimeGene Technical Data Sheet

Catalog Number:	105-27A
Source:	*Escherichia coli*
Molecular Weight:	Approximately 27 kDa, a disulfide-linked homodimer of two 117 amino acid, C-terminal polyhistidine tagged proteins.
Quantity:	10μg/100μg
AA Sequence:	Val235-Gly345, with an N-terminal Met and 6-His tag; Accession # NP_057289
Purity:	> 97 % by SDS-PAGE analyses.
Biological Activity:	Measured in a cell proliferation assay using NR6R-3T3 mouse fibroblast cells. The ED_{50} for this effect is 70-350 ng/mL.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from 0.2 μm filtered concentrated solution in 30 % Acetonitrile and 0.1 % TFA.
Endotoxin:	Less than 0.1 EU/μg of rHuPDGF-CC as determined by LAL method.
Reconstitution:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in 4 mM HCl to a concentration of 0.1 mg/mL. Further dilutions should be made in appropriately buffered solutions.
Stability & Storage:	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Usage:	This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further evaluation purposes. **NOT FOR HUMAN USE**.

Human Platelet-derived Growth Factor-CC

PDGF-CC is a 32 kDa homodimeric growth factor that is secreted by platelets, vascular and visceral smooth muscle cells, renal mesangial cells, macrophages, and retinal pigment epithelium. PDGF-CC is mitogenic toward retinal pigment cells and fibroblasts. It also is a chemoattractant for macrophages and endothelial cell precursors, and induces MMP expression by phagocytes. PDGF-CC binds and signals through homodimers of PDGF Rα and heterodimeric PDGF Rα/β.

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