

PDGF-CC Protein, Cynomolgus (HEK293, hFc)

Cat. No.:	HY-P74640
Synonyms:	PDGF-C; Platelet derived growth factor C; VEGF-E; SCDGF
Species:	Cynomolgus
Source:	HEK293
Accession:	EHH54037 (V196-G306)
Gene ID:	/
Molecular Weight:	Approximately 45 kDa

PROPERTIES

AA Sequence	<p>V V D L N L L T E E V R L Y S C T P R N F S V S I R E E L K R T D T I F W P G C</p> <p>L L V K R C G G N C A C C L H N C N E C Q C V P S K V T K K Y H E V L Q L R P K</p> <p>T G V R G L H K S L T D V A L E H H E E C D C V C R G S T G G</p>
Biological Activity	Measured in a cell proliferation assay using NIH/3T3 cells. The ED ₅₀ for this effect is 15.09 ng/mL, corresponding to a specific activity is 66269.052 units/mg.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>Platelet derived growth factor C (PDGF-CC) is a growth factor that plays an essential role in the regulation of embryonic development, cell proliferation, cell migration, survival and chemotaxis. PDGF-CC is a potent mitogen and chemoattractant for cells of mesenchymal origin which is required for normal skeleton formation during embryonic development, especially for normal development of the craniofacial skeleton and for normal development of the palate. PDGF-CC is also required for normal skin morphogenesis during embryonic development. PDGF-CC plays an important role in wound healing, where it appears to be involved in three stages: inflammation, proliferation and remodeling. PDGF-CC plays an important role in</p>
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angiogenesis and blood vessel development and is involved in fibrotic processes, in which transformation of interstitial fibroblasts into myofibroblasts plus collagen deposition occurs. The CUB domain of PDGF-CC has mitogenic activity in coronary artery smooth muscle cells^{[1][2][3]}.

Caution: Product has not been fully validated for medical applications. For research use only.

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