

## PDGF-CC Protein, Mouse (HEK293, Fc)

<b>Cat. No.:</b>	HY-P73354
<b>Synonyms:</b>	PDGF-C; Platelet derived growth factor C; VEGF-E; SCDGF
<b>Species:</b>	Mouse
<b>Source:</b>	HEK293
<b>Accession:</b>	Q8CI19 (V235-G345)
<b>Gene ID:</b>	54635
<b>Molecular Weight:</b>	Approximately 46 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>V V N L N L L K E E    V K 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 R K V T K K    Y H E V L Q L R P K</p> <p>T G V K G L H K S L    T D V A L E H H E E    C D C V C R G N A G    G</p>
<b>Biological Activity</b>	Measured in a cell proliferation assay using NIH-3T3 mouse embryonic fibroblasts cells. The ED <sub>50</sub> this effect is 61.4 ng/mL, corresponding to a specific activity is 1.6287×10 <sup>4</sup> units/mg.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4
<b>Endotoxin Level</b>	<1 EU/μg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>PDGF-CC Protein, a pivotal growth factor, assumes a critical role in orchestrating diverse cellular processes, spanning embryonic development, cell proliferation, migration, survival, and chemotaxis. Demonstrating potent mitogenic and chemoattractant properties for mesenchymal cells, PDGF-CC emerges as a key player in the intricate landscape of embryonic skeleton formation, particularly in craniofacial and palate development, as well as in the morphogenesis of the skin. Its involvement in wound healing encompasses pivotal contributions to inflammation, proliferation, and remodeling stages. Moreover, PDGF-CC is a central figure in angiogenesis and blood vessel development, wielding influence in fibrotic</p>
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processes by orchestrating the transformation of interstitial fibroblasts into myofibroblasts and facilitating collagen deposition. Beyond its canonical roles, the CUB domain hints at additional mitogenic activities, particularly in coronary artery smooth muscle cells. In the nucleus, PDGF-CC unveils additional functions, underscoring its multifaceted regulatory capacities. Homodimeric and disulfide-linked, PDGF-CC engages in intricate interactions with PDGFRA homodimers and heterodimers formed by PDGFRA and PDGFRB, while also interacting with PLAT via its CUB domain.

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

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