PDGF-CC Protein, Human (HEK293)

Cat. No.:	HY-P7279
Synonyms:	rHuPDGF-CC; PDGF-C; SCDGF
Species:	Human
Source:	HEK293
Accession:	Q9NRA1-1 (V235-G345)
Gene ID:	56034
Molecular Weight:	15-19 kDa

PROPERTIES

AA Sequence	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 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 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
Biological Activity	The ED_{50} is <1 ng/mL as measured by 3T3 cells.
Appearance	Lyophilized powder
Formulation	Lyophilized after extensive dialysis against PBS.
Endotoxin Level	<0.2 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	PDGF-CC is a relatively new member of the PDGF family, abundantly expressed by different types of cells, such as tumor cells, endothelial cells (ECs), vascular smooth muscle cells (VSMCs), pericytes, fibroblasts, and macrophages. PDGF-CC binds to PDGFR-α and PDGFR-β, which are also expressed by many different cell types, including tumor cells, VSMCs, pericytes, and fibroblasts, all of which play important roles in angiogenesis. PDGF-CC is a potent angiogenic factor[1].

REFERENCES

[1]. Zheng L, et al. PDGF-CC underlies resistance to VEGF-A inhibition and combinatorial targeting of both suppresses pathological angiogenesis more efficiently. Oncotarget. 2016 Nov 22;7(47):77902-77915.

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