

PDGF-CC Protein, Mouse (P.pastoris, His)

Cat. No.:	HY-P73719
Synonyms:	PDGF-C; Platelet derived growth factor C; VEGF-E; SCDGF
Species:	Mouse
Source:	P. pastoris
Accession:	Q8CI19 (V235-G345)
Gene ID:	54635
Molecular Weight:	Approximately 14.4 kDa

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	<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 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.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA