
Product Data Sheet

Product Name: PDGF CC Human
 Cat. No.: GP20821
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Platelet Derived Growth Factor C; Spinal Cord-Derived Growth Factor; FALLOTEIN; PDGF-C; VEGF-E; SCDGF; Secretory Growth Factor-Like Protein; Platelet-Derived Growth Factor C; PDGFC.		
Amino Acid Sequence	MHHHHHHVVD LLLTTEEVRL YSCTPRNFSV SIREELKRTD TIFWPGCLLV KRCGGNCACC LHNCNECQCV PSKVTKKYHE VLQLRPKTGV RGLHKSLTDV ALEHHEECDV VCRGSTGG.		
Solubility	It is recommended to reconstitute the lyophilized PDGF-CC in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a 0.2µm filtered solution in Acetonitrile and TFA.		

Introduction

Platelet Derived Growth Factor-CC (PDGF-CC) belongs to the PDGF family of growth factors. PDGF-CC binds with high-affinity to PDGF R-α and activates PDGF R-αβ heterodimers. During development, PDGF-CC is involved in ductal morphogenesis, cardiovascular smooth muscle cell proliferation; also PDGF-CC is an angiogenic factor. Furthermore, PDGF-CC is expressed in numerous tumors and tumor cell lines, and may be linked with tumorigenesis.

Biological Activity

The ED₅₀, as measured in a proliferation assay using mouse NR6R-3T3 cells, is less than 350ng/ml.

Stability

Lyophilized PDGF-CC although stable at room temperature for 3 weeks, should be stored

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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desiccated below -18°C . Upon reconstitution PDGF-CC should be stored at 4°C between 2-7 days and for future use below -18°C . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Background

PDGF-CC Human Recombinant (235-345) produced in E.Coli is a disulfide-linked homodimer containing 2x118 amino acids and having a total molecular mass of 26.8kDa. The PDGF-CC is fused to a 7 amino acid His tag [M-HHHHHH] at N-terminal and purified by proprietary chromatographic techniques.

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