

Growth Factor Data Sheet

GoldBio growth factors are manufactured for **RESEARCH USE ONLY** and cannot be sold for human consumption!

Platelet-derived growth factor (PDGF) is a glycoprotein present in serum but absent from plasma. PDGF has three subforms: PDGFAA, PDGFBB, and PDGF-AB. This form is a disulfide-linked homodimer consisting of two peptide chains B (PDGFBB). It is involved in a number of biological processes, including hyperplasia, embryonic neuron development, chemotaxis, and respiratory tubule epithelial cell development. In contrast to PDGFAA, the beta chains in PDGFBB are sufficient for mitogenesis. The function of PDGF is mediated by two tyrosine kinase receptors, PDGFR- α and PDGFR- β , both of which bind PDGFBB.

Catalog Number	1150-10
Product Name	PDGFBB (dimer), Human Recombinant Human Platelet-derived Growth Factor, Beta Polypeptide (dimer) PDGFAB PDGF2 Simian Sarcoma Viral Oncogene Homolog (SSV) Oncogene SIS Becaplermin
Source	<i>Escherichia coli</i>
MW	~24.8 kDa, a disulfide-linked homodimeric protein containing two 110 amino acid residue polypeptides (B chain)
Sequence	MSLGSLTIAE PAMIAECKTR TEVFEISRRL IDRTNANFLV WPPCVEVQRC SGCCNNRNVQ CRPTQVQLRP VQVRKIEIVR KKPIFKKATV TLEDHLACKC ETVAAARPVT
Accession Number	P01127
Purity	>97% by SDS-PAGE analysis
Biological Activity	Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using murine BALB/c 3T3 cells is less than 3 ng/ml, corresponding to a specific activity of $>3.3 \times 10^5$ IU/mg.
Formulation	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
Storage/Handling	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
Reconstitution	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.