GEMINI BIO-PRODUCTS
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Product Usage

Product: **Recombinant Human PDGF-BB**
Cat #: 300-178P
Powder

Description	Platelet-Derived Growth Factor (PDGF) is a mitogenic peptide growth hormone carried in the alpha-granules of platelets and is released when platelets adhere to traumatized tissues. Connective tissue cells near the traumatized region respond by initiating the process of replication. The synthesis of PDGF can be induced by IL-1, IL-6, TNF-α, TGF-β and EGF. Alternate names: GDGF, ODGF
MW	Non-glycosylated, disulfide-linked homodimer, containing two 109 amino acid chains, with a total molecular weight of 24.3 kDa.
Physical Appearance	Sterile filtered white lyophilized (freeze-dried) powder.
Source	*E. coli*
Formulation	Recombinant human PDGF-BB is lyophilized from 10 mM acetic acid (AcOH).
Reconstitution	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.
Stability	Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.
Biological Activity	The activity is determined by the dose-dependent proliferation of 3T3 indicator cells and is typically 1-3 ng/mL.
Endotoxin Level	Measured by kinetic LAL analysis and is typically ≤ 1 EU/µg protein.
AA Sequence	SLGSLTIAEP AMIAECKTRT EVFEISRRLI DRTNANFLVW PPCVEVQRCS GCCNNRNVQC RPTQVQLRPV QVRKIGIVRK KPIFKKATVT LGDHLACKCE TVAAARPVT

Purity greater than 95% determined by Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm.

Protein content determined by Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm.

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!