

**DATASHEET**  
Version 20181206**PDGF-BB, Human****Cat. No.:** Z02892-1**Size:** 1.0 mg**Synonyms:** PDGF-BB human; rHuPDGF-BB**Description:**

Platelet-derived growth factor (PDGF) presenting in serum but absent from plasma was first discovered in animal study by Lynch and co-workers in the late 1980s. It is a disulfide-linked dimer consisting of two peptides-chain A and chain B. PDGF has three subforms: PDGF-AA, PDGF-BB, PDGF-AB. It is involved in a number of biological processes, including hyperplasia, embryonic neuron development, chemotaxis, and respiratory tubule epithelial cell development. The function of PDGF is mediated by two receptors (PDGFR- $\alpha$  and PDGFR- $\beta$ ).

**Amino Acid Sequence:**

00001 MSLGSLTIAE PAMIAECKTR TEVFEISRRL IDRTNANFLV  
00041 WPPCQEVQRC SGCCNNRNQV CRPTQVQLRP VQVRKIEIVR  
00081 KKPIFKKATV TLEDHLACKC ETVAARPVT

**Source:** *E. coli***Species:** Human

**Biological Activity:** Fully biologically active when compared to standard. The  $ED_{50}$  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.

**Molecular Weight:** Approximately 24.8 kDa, a disulfide-linked homodimeric protein containing two 110 amino acid residues polypeptide (B chain).

**Formulation:** Lyophilized from a 0.2  $\mu$ m filtered concentrated solution in PBS, pH 7.4.

**Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

**Reconstitution:** We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at  $\leq -20$  °C. Further dilutions should be made in appropriate buffered solutions.

**Purity:**  $> 97$  % by SDS-PAGE and HPLC analyses.

**Endotoxin Level:** Less than 1 EU/ $\mu$ g of rHuPDGF-BB as determined by LAL method.

**Storage:** This lyophilized preparation is stable at 2-8 °C, but should be kept at -20 °C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 °C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 °C to -70 °C. Avoid repeated freeze/thaw cycles.