

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant Human Platelet-derived growth factor -BB (rHuPDGF-BB)

Catalog Number: PR1110

Source: Escherichia coli.

Quantity: 2µg/10µg/1.0mg

Description

Human Platelet-derived growth factor -BB 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- α and PDGFR- β).

Molecular Weight:

Approximately 12.4 KDa, a disulfide-linked homodimeric protein containing two 109 amino acid residues polypeptide (B chain).

Purity:

>97% by SDS-PAGE and HPLC analyses.

Biological Activity:

Fully biologically active when compared to standard. The ED50 as determined by the dose-dependent stimulation of the proliferation of murine Balb/c 3T3 cells is ≤ 3.0 ng/ml, corresponding to a specific activity of $\geq 3.3 \times 10^5$ units/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.

AA Sequence:

SLGSLTIAEPAMIAECKTRTEVF EISRRLIDRTNANFLVWPPC VEVQRCSGCCNRRNVQCRPTQVQLRPVQVRKIEIVRKKPIFKKATVTL EDHLACKCETVAAARPVT

Endotoxin:

Less than 1EU/µg of rHuPDGF-BB as determined by LAL method.

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 $<-20^{\circ}\text{C}$. Further dilutions should be made in appropriate buffered solutions.

Storage:

This lyophilized preparation is stable at $2-8^{\circ}\text{C}$, 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 $2-8^{\circ}\text{C}$. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C . Avoid repeated freeze/thaw cycles.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE. Made in China

MADE IN CHINA

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