

# PRODUCT DATA SHEET



Bioworld Technology, Inc.

## Recombinant PDGF-BB, Mouse

Catalog Number: BK0152-10µg

Source: Escherichia coli.

Quantity: 10µg

### Description:

Platelet-Derived Growth Factor-BB (PDGF-BB) is one of five dimers (PDGF-AA, AB, BB, CC, and DD) formed by 4 different PDGF subunits. In vivo PDGF-BB is mainly produced in heart and placenta, and predominantly expressed by osteoblasts, fibroblasts, smooth muscle cells, and glial cells. An inactive precursor of PDGF-BB is produced in the endoplasmic reticulum and then activated by a proprotein convertase after secretion. PDGF-BB functions in a paracrine manner and promotes organogenesis, development of human skeleton, and wound healing. PDGF-BB also promotes angiogenesis, particularly in the presence of Fibroblast Growth Factor basic. Therefore, PDGF-BB and its related pathways are potential pharmacological targets. Recombinant mouse Platelet-Derived Growth Factor-BB (rmPDGF-BB) produced in E.coli is a disulfide-linked homodimer containing two non-glycosylated polypeptide chains of 110 amino acids each. A fully biologically active molecule, rmPDGF-BB has a molecular mass of 24.7 kDa analyzed by non-reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at GenScript.

### Molecular Weight:

24.7 kDa, observed by non-reducing SDS-PAGE.

### Purity:

> 95% by SDS-PAGE analysis.

### Biological Activity:

ED50 < 2.5 ng/mL, measured by a cell proliferation assay using 3T3 Cells, corresponding to a specific activity of > 4 × 10<sup>5</sup> units/mg.

### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

### Formulation:

Lyophilized after extensive dialysis against 10 mM Sodium Citrate, pH 3.0.

### AA Sequence:

MSLGSLAAAEPAVIAECK-  
TRTEVFQISRNLIDRTNANFLVWPPCVEVQRCSG  
CCNNRNVQCRASQVQMRPVQVRKIEIVRK-  
KPIFKKATVTLEDHLACKCETIVTPRPVT

### Endotoxin:

< 0.2 EU/µg, determined by LAL method.

### Reconstitution:

Reconstituted in ddH<sub>2</sub>O at 100 µg/mL.

### Storage:

Lyophilized recombinant mouse Platelet-Derived Growth Factor-BB (rmPDGF-BB) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rmPDGF-BB remains stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.

### Usage:

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