

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant PDGF-BB, Human (P. pastoris-expressed)

Catalog Number: BK0343-10 μ g

Source: P. pastoris

Quantity: 10 μ g

Description:

Platelet Derived Growth Factor (PDGF) is a potent mitogen for a wide range of cell types including fibroblasts, smooth muscle, connective tissue, bone and cartilage cells, and some blood cells. The PDGF is involved in a number of biological processes, including hyperplasia, chemotaxis, embryonic neuron development, and respiratory tubule epithelial cell development. PDGF which is composed of a dimer of two chains termed the A chain and B chain, can be present as AA or BB homodimers or as an AB heterodimer. Recombinant human Platelet-Derived Growth Factor-BB (rhPDGF-BB) produced in *Pichia pastoris* is a glycosylated polypeptide. rhPDGF-BB is a 24.3 kDa disulfide-linked homodimer of two B chains (218 total amino acids) and is obtained by proprietary chromatographic techniques at GenScript.

Molecular Weight:

24.3kDa, observed by non-reducing SDS-PAGE.

Purity:

> 97% by SDS-PAGE and HPLC analyses.

Biological Activity:

ED50 <3 ng/ml, measured by the dose-dependent stimulation of the proliferation of Balb/c 3T3 cells, corresponding to a specific activity of >3.3 x 10⁵ units/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) pow-

der.

Formulation:

Lyophilized after extensive dialysis against 10mM acetic acid.

AA Sequence:

SLGSLTIAEPAMIAECK-
TRTEVFESISRRLLIDRTNANFLVWPPCVEVQRCSGC
CNNRNVQCRPTQVQLRPVQVRKIEIVRK-
KPIFKKATVTLEDHLACKCETVAAARPVT

Endotoxin:

<1.0 EU/ μ g, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O at 100 μ g/ml.

Storage:

Lyophilized recombinant human Platelet-Derived Growth Factor-BB (rhPDGF-BB) remains stable up to 12 months at -80 °C from date of receipt. Upon reconstitution, rhPDGF-BB should be stable up to 4 weeks at 4 °C or up to 6 months at -20 °C.

Usage:

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