

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

**Cat. No.:** Z02529-50

**Size:** 50.0 µg

**Synonyms:** Glioma-derived growth factor (GDGF), Osteosarcoma-derived Growth Factor (ODGF).

### 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.

### Amino Acid Sequence:

00001 SLGSLTIAEP AMIAECKTRT EVFEISRRLI DRTNANFLVW  
00041 PPCVEVQRCS GCCNNRNVQC RPTQVQLRPV QVRKIEIVRK  
00081 KPIFKKATVT LEDHLACKCE TVAAARPVT

**Source:** *P. pastoris*

**Species:** Human

**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  $>3.3 \times 10^5$  units/mg.

**Molecular Weight:** 24.3kDa, observed by non-reducing SDS-PAGE.

**Formulation:** Lyophilized after extensive dialysis against 10mM acetic acid.

**Reconstitution:** Reconstituted in ddH<sub>2</sub>O at 100 µg/ml.

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

**Endotoxin Level:** <1.0 EU/µg, determined by LAL method.

**Storage:** Lyophilized recombinant human Platelet-Derived Growth Factor-BB (rhPDGF-BB) remains stable up to 12 months at lower than -70°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.