DATASHEET
Version 20181206

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

Cat. No.: Z02529-10

Size: 10.0 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:

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00001 SLGSLTIAEP AMIAECKTRT EVFEISRRLI DRTNANFLVW
00041 PPCVEVQRCS GCCNNRNVQC RPTQVQLRPV QVRKIEIVRK
00081 KPIFKKATVT LEDHLACKCE TVAAARPVT
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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 x 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_2O 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.

GenScript USA, Inc.
860 Centennial Ave. Piscataway, NJ 08854
Tel: 1-877-436-7274; 1-732-885-9188