

Recombinant Rat Platelet-derived Growth Factor-BB (rRtPDGF-BB)

PrimeGene Technical Data Sheet

Catalog Number: 145-10

Source: Escherichia coli.

Molecular Weight: Approximately 24.4 kDa, a disulfide-linked homodimeric protein containing two 109 amino acid

residues polypeptide (B chain).

Quantity: $2\mu g/10\mu g/1000\mu g$

AA Sequence: SLGSLAAAEP AVIAECKTRT EVFQISRNLI DRTNANFLVW PPCVEVQRCS GCCNNRNVQC

RASQVQMRPV QVRKIEIVRK KPVFKKATVT LEDHLACKCE TVVTPRPVT

Purity: > 98 % by SDS-PAGE and HPLC analyses.

Biological Activity: Fully biologically active when compared to standard. The ED_{50} as determined by a cell proliferation

assay using murine Balb/c 3T3 cells is less than 2.0 ng/ml, corresponding to a specific activity of >

 5.0×10^5 IU/mg.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation: Lyophilized from a 0.2 μ m filtered concentrated solution in 1 × PBS, pH 6.9.

Endotoxin: Less than 0.1 EU/µg of rRtPDGF-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 \leq -20 °C. Further dilutions should be made in appropriate buffered solutions.

Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature

recommended below.

Stability & Storage: Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

12 months from date of receipt, -20 to -70 °C as supplied.

1 month, 2 to 8 °C under sterile conditions after reconstitution.

• 3 months, -20 to -70 °C under sterile conditions after reconstitution.

Usage: This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further

evaluation purposes. NOT FOR HUMAN USE.

Rat Platelet-derived Growth Factor-BB

Platelet-derived growth factor is a dimeric glycoprotein composed of two A (-AA) or two B (-BB) chains or a combination of the two (-AB). All PDGFs function as secreted, disulphide-linked homodimers, but only PDGFA and B can form functional heterodimers. PDGFs are mitogenic during early developmental stages, driving the proliferation of undifferentiated mesenchyme and some progenitor populations. PDGF is a required element in cellular division for fibroblasts, a type of connective tissue cell that is especially prevalent in wound healing. In essence, the PDGFs allow a cell to skip the G1 checkpoints in order to divide. Recombinant rat PDGF-AA contains 109 amino acids and has a molecular mass of 12.2 kDa.

Rev. 08/20/2018 V.3

Email: info.pg@bio-techne.com

Shanghai PrimeGene Bio-Tech Co., Ltd.

Website: www.primegene.com.cn
Tel: +86 21 52380373

Website: www.primegene.com Fax: +86 21 61077348