

Recombinant Mouse Platelet-derived Growth Factor-BB (rm PDGF-BB)

PDGF-BB is a member of the platelet-derived growth factor family. The four members of this family are mitogenic factors for cells of mesenchymal origin and are characterized by a motif of eight cysteines. This gene product can exist either as a homodimer (PDGF-BB) or as a heterodimer with the platelet-derived growth factor alpha polypeptide (PDGF-AB), where the dimers are connected by disulfide bonds. Mutations in this gene are associated with meningioma. Reciprocal translocations between chromosomes 22 and 7, at sites where this gene and that for COL1A1 are located, are associated with a particular type of skin tumor called dermatofibrosarcoma protuberans resulting from unregulated expression of growth factor. Two splice variants have been identified for this gene. Recombinant mouse Platelet-Derived Growth Factor BB is a homodimeric, non-glycosylated, polypeptide chain containing 109 amino acids and having a molecular mass of 24.4 kDa

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

Source: *Escherichia coli*

AA Sequence: MSLGSLAAAE PAVIAECKTR TEVFQISRNL IDRTNANFLV WPPCVEVQRC
SGCCNRRNVQ CRASQVQMRP VQVRKIEIVR KKPIFKKATV TLEDHLACKC
ETIVTPRPVT

Formulation: Lyophilised from a 0.2 µm filtered solution in 25mM CH₃COONa, pH 4.0 containing 100mM NaCl.

Reconstitution: Reconstitute in sterile endotoxin free water not less than 100 µg/ml

Stability: The lyophilized protein is stable for at least 2 years at -20°C. Reconstituted rm PDGF-BB is stable for at least 3 months when stored in concentrated working aliquots (100 ng/µl or higher) at -20°C. Avoid repeated freeze/thaw cycles.

Biological Activity: Determined by the dose-dependent stimulation of the proliferation of Balb/c 3T3 cells the ED50 is 1.0-2.0 ng/ml.

Purity: 95% (verified by SDS-PAGE / silver stain)

Endotoxicity: The endotoxin level is less than 0.1 ng per µg (1EU/µg) determined by LAL method

Order N°: rm PDGF-BB+Size
available sizes: 2 µg, 10 µg, 50 µg

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