

Recombinant Mouse Pdgfb protein

Cat. No. Pdgfb-55M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Pdgfb protein was expressed in Escherichia coli.
Species	Mouse
Source	E.coli
ProteinLength	109
Description	This gene encodes a member of the protein family comprised of both platelet-derived growth factors (PDGF) and vascular endothelial growth factors (VEGF). The encoded preproprotein is proteolytically processed to generate platelet-derived growth factor subunit B, which can homodimerize, or alternatively, heterodimerize with the related platelet-derived growth factor subunit A. These proteins bind and activate PDGF receptor tyrosine kinases, which play a role in a wide range of developmental processes. Mutations in this gene are associated with meningioma. Reciprocal translocations between chromosomes 22 and 17, at sites where this gene and that for collagen type 1, alpha 1 are located, are associated with dermatofibrosarcoma protuberans, a rare skin tumor. Alternative splicing results in multiple transcript variants.
Form	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 5.0.
Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using murine Balb/c 3T3 cells is less than 1.0 ng/ml, corresponding to a specific activity of > 1.0 ×

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	10 ⁶ IU/mg.
Molecular Mass	Approximately 24.4 kDa, a disulfide-linked homodimeric protein containing two 109 amino acid residues polypeptide (B chain).
AA Sequence	SLGSLAAAEPAVIAECKTRTEVFQISRNLIDRTNANFLVWPPCVEVQRCSGCCNNRN VQCRASQVQMRPVQVRKIEIVRKKPIFKKATVTLEDHLACKCETIVTPRPVT
Endotoxin	Less than 0.1 EU/μg of rMuPDGF-BB as determined by LAL method.
Purity	>98% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
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 ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	Pdgfb
Official Symbol	Pdgfb
Synonyms	PDGFB; platelet derived growth factor, B polypeptide; platelet-derived growth factor subunit B; c-sis; PDGF-2; PDGF subunit B; proto-oncogene c-Sis; platelet-derived

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growth factor B chain; platelet-derived growth factor beta polypeptide; Sis; PDGF-B;

Gene ID 18591**mRNA Refseq** NM_011057**Protein Refseq** NP_035187**UniProt ID** P31240 Tel: 1-631-559-9269 1-516-512-3133 Email: info@creative-biomart.com  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA