

Active Recombinant Rat Pdgfb Protein (110 aa)

Cat. No. Pdgfb-315P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant rat Platelet-Derived Growth Factor-BB (rrPDGF-BB) produced in E. coli is a disulfide-linked homodimer containing two non-glycosylated polypeptide chains of 110 amino acids each. A fully biologically active molecule, rrPDGF-BB has a molecular mass of 24.6 kDa analyzed by non-reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.
Species	Rat
Source	E.coli
ProteinLength	110
Description	Platelet-Derived Growth Factor-BB (PDGF-BB) is one of five dimers (PDGF-AA, AB, BB, CC, and DD) formed by 4 different PDGF subunits. In vivo, PDGF-BB is mainly produced in heart and placenta, and predominantly expressed by osteoblasts, fibroblasts, smooth muscle cells, and glial cells. An inactive precursor of PDGF-BB is produced in the endoplasmic reticulum and then activated by a proprotein convertase after secretion. PDGF-BB functions in a paracrine manner and promotes organogenesis, human skeletal development, and wound healing. PDGF-BB also promotes angiogenesis, particularly in the presence of Fibroblast Growth Factor basic. Therefore, PDGF-BB and its related pathways are potential pharmacological targets.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.

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Bio-activity	ED50 < 2 ng/mL, measured by a cell proliferation assay using 3T3 Cells, corresponding to a specific activity of > 5 × 10 ⁵ units/mg.
Molecular Mass	24.6 kDa, observed by non-reducing SDS-PAGE.
AA Sequence	MSLGSLAAAEPAVIAECKTRTEVFQISRNLIDRTNANFLVWPPCVEVQRCSGCCNNR NVQCRASQVQMRPVQVRKIEIVRKKPVFKKATVTLEDHLACKCETVVTPRPVT
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% by SDS-PAGE analysis.
Storage	Lyophilized recombinant rat Platelet-Derived Growth Factor-BB (rrPDGF-BB) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rrPDGF-BB remains stable up to 2 weeks at 4 centigrade or up to 3 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against 20 mM acetic acid.
Reconstitution	Reconstituted in 20 mM acetic acid at 100 μg/mL.

GENE INFORMATION

Gene Name	Pdgfb platelet-derived growth factor beta polypeptide [Rattus norvegicus]
Official Symbol	Pdgfb
Synonyms	PDGFB; platelet-derived growth factor beta polypeptide; platelet-derived growth factor subunit B; PDGF-2; pdgf protein; PDGF subunit B; platelet-derived growth factor B chain; platelet derived growth factor, B polypeptide; Platelet-derived growth factor, same as Sis (Simian sarcoma viral oncogene homologue, c-sis); platelet-derived

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growth factor beta polypeptide (simian sarcoma viral (v-sis) oncogene homolog); SIS;
c-sis;

Gene ID 24628

mRNA Refseq NM_031524

Protein Refseq NP_113712

UniProt ID Q05028

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