

Active Recombinant Mouse Pdgfb Protein (110 aa)

Cat. No. Pdgfb-316P Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Platelet-Derived Growth Factor-BB (rmPDGF-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, rmPDGF-BB has a molecular mass of 24.7 kDa analyzed by non-reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.
Species	Mouse
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, development of human skeleton, 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 < 2.5 ng/mL, measured by a cell proliferation assay using 3T3 Cells, corresponding to a specific activity of > 4 × 10 ⁵ units/mg.
Molecular Mass	24.7 kDa, observed by non-reducing SDS-PAGE.
AA Sequence	MSLGSLAAAEPAVIAECKTRTEVFQISRNLIDRTNANFLVWPPCVEVQRCSGCCNNR NVQCRASQVQMRPVQVRKIEIVRKKPIFKKATVTLEDHLACKCETIVTPRPVT
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% by SDS-PAGE analysis.
Storage	Lyophilized recombinant mouse Platelet-Derived Growth Factor-BB (rmPDGF-BB) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rmPDGF-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 10 mM Sodium Citrate, pH 3.0.
Reconstitution	Reconstituted in ddH ₂ O at 100 μg/mL.

GENE INFORMATION

Gene Name	Pdgfb platelet derived growth factor, B polypeptide [Mus musculus]
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 growth factor B chain; platelet-derived growth factor beta polypeptide; Sis; PDGF-B;

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Gene ID	18591
mRNA Refseq	NM_011057
Protein Refseq	NP_035187
UniProt ID	P31240

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