

# Platelet-Derived Growth Factor-BB

Human, Recombinant (PDGF-BB)

Expressed in *E. coli*

Cat. No. CRP0855

Lot. No. (See product label)

## PRODUCT INFORMATION

**Description:** Platelet-Derived Growth Factor (PDGF) is a potent mitogen for a wide range of cell types including fibroblasts, smooth muscle and connective tissue. PDGF which is composed of a dimer of two chains termed the A chain and B chain, can be present as AA or BB homodimers or as an AB heterodimer. Recombinant human PDGF-BB is a 24.3 kDa disulfide-linked homodimer of two B chains (218 total amino acids). Human recombinant platelet-derived growth factor is expressed in *E. coli*.

**M. W. :** 27KD

**Recombinant:** Expressed in *E. coli*

**Purity:** ≥95% as determined by SDS-PAGE.

**Component:** Platelet-Derived Growth Factor-BB, PBS buffer, pH 7.4

**PI:** 9.39 by Isoelectricfocusing

**Concentration:** 1 mg/ml by BCA

**Endotoxin:** less than 10EU/mg as determined by LAL method

**Storage buffer:** Liquid. In PBS Buffer.

**Storage:** At 4°C for 6 months and -80°C for 2 years

## REFERENCES

1. Abedi, H., et al. An intrinsically stable antibody scFv fragment can tolerate the loss of both disulfide bonds and fold correctly. *FEBS Lett.* 1998; 427(3): 357-361.
2. Kurup S, Abramsson A, Li JP, et al. Heparan sulphate requirement in platelet-derived growth factor B-mediated pericyte recruitment. *Biochem. Soc. Trans.* 2006; 34 (Pt 3): 454-455.

## FOR RESEARCH USE ONLY



[PDB](#) rendering based on 1pdg.  
Available structures: [1pdg](#)

## GENE INFORMATION

**Gene Name:** [PDGFB](#)

**Synonyms:** FLJ12858; PDGF2; SIS; SSV; c-sis; Becaplermin; PDGF-2; SIS; SSV; becaplermin; c-sis; HUMANES PDGF-B GEN AUS PGEM2-PDGF-B, FLANKIERT VON 5'-ECORI UND 3'-HINDIII RESTRIKTIONSSCHNITTSTELLEN; PDGF B-chain; PDGF, B chain; PDGF-B VORLAEUFERSEQUENZ ; PDGFB\_HUMAN; Platelet-derived growth factor B chain precursor; Platelet-derived growth factor beta polypeptide; Platelet-derived growth factor, beta polypeptide (oncogene SIS); oncogene SIS ; platelet-derived growth factor 2; platelet-derived growth factor beta; platelet-derived growth factor beta polypeptide (simian sarcoma viral (v-sis) oncogene homolog); platelet-derived growth factor, B chain; v-sis platelet-derived growth factor beta polypeptide (simian sarcomaviral oncogene homolog)

**mRNA Refseq:** [NM\\_002608](#)

**Protein Refseq:** [NP\\_002599](#)

**MIM:** [190040](#)

**GeneID:** [5155](#)

**Uniprot ID:** P01127

**Chromosome Location:** 22q12.3-q13.1; 22q13.1

**Pathway:** Cytokine-cytokine receptor interaction, Focal adhesion, Gap junction, Glioma, MAPK signaling pathway, Melanoma, Prostate cancer, Regulation of actin cytoskeleton, Renal cell carcinoma; Hemostasis.

**Function:** cell surface binding, growth factor activity, platelet-derived growth factor binding, platelet-derived growth factor receptor binding, protein binding, protein heterodimerization activity, protein homodimerization activity.

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