Rev07
Update: Aug,20,2025

**DATASHEET**

# PDGF-BB, Human

**Cat. No.:** Z02892

## Product Introduction

| | |
|---|---|
| **Species** | Human |
| **Protein Construction** | Expressed with an N-terminal Met.<br>**PDGF-BB (Ser82-Thr190) Accession # P01127** |
| **Purity** | > 97% as analyzed by SDS-PAGE<br>> 97% as analyzed by HPLC |
| **Endotoxin Level** | < 1 EU/μg of protein by LAL method |
| **Biological Activity** | Fully biologically active when compared to standard. The $ED_{50}$ as determined by a cell proliferation assay using murine Balb/c 3T3 cells is less than 3.0 ng/ml, corresponding to a specific activity of > $3.3 \times 10^5$ IU/mg. |
| **Expression System** | E. coli |
| **Theoretical Molecular Weight** | 24.8 kDa |
| **Formulation** | Lyophilized from a 0.2 μm filtered solution in PBS, pH 7.4. |
| **Reconstitution** | It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/ml. |
| **Storage & Stability** | Upon receiving, this product remains stable for 6 months at -70°C or -20°C. Upon reconstitution, the product should be stable for 1 week at 4°C or for 3 months at -20°C. Avoid repeated freeze-thaw cycles. |

## Examples

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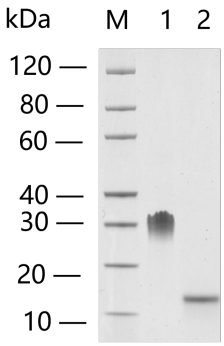


Lane 1: 2 μg of PDGF-BB, Human, non-reducing (NR)
Lane 2: 2 μg of PDGF-BB, Human, reducing (R)
> 97% as analyzed by SDS-PAGE

# Background

**Target Background :** 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.

**Synonyms :** PDGFBB; IBGC5; PDGF-2; PDGF2; SIS; SSV; c-sis; platelet derived growth factor subunit B

**For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.**

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