

Rev06
Update: Aug,11,2025**DATASHEET**

PDGF-BB, Human

Cat. No.: Z02892

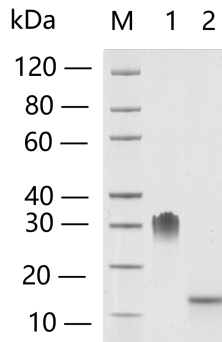
Product Introduction

Species	Human
Protein Construction	Expressed with an N-terminal Met. PDGF-BB (Ser82-Thr190) Accession # P01127
Purity	> 97% as analyzed by SDS-PAGE > 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 × 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 up to 6 months at -70°C or -20°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. Avoid repeated freeze-thaw cycles.

Examples

Lane 1: 2 μ g of PDGF-BB, Human, non-reducing (NR)Lane 2: 2 μ g 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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