

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

# PDGF-BB, Rat

Cat. No.: Z03179

## Product Introduction

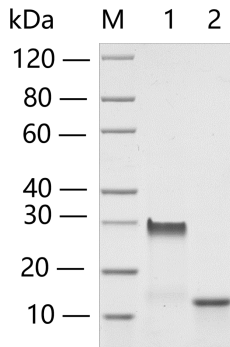
<b>Species</b>	Rat
<b>Protein Construction</b>	Expressed with an N-terminal Met. <b>PDGF-BB (Ser74-Thr182) Accession # Q05028</b>
<b>Purity</b>	> 95% as analyzed by SDS-PAGE
<b>Endotoxin Level</b>	< 0.2 EU/μg of protein by gel clotting method
<b>Biological Activity</b>	ED <sub>50</sub> < 2.0 ng/ml, measured by a cell proliferation assay using 3T3 Cells, corresponding to a specific activity of > 5.0 × 10 <sup>5</sup> units/mg.
<b>Expression System</b>	E. coli
<b>Apparent Molecular Weight</b>	~24.6 kDa, on SDS-PAGE under non-reducing conditions.
<b>Formulation</b>	Lyophilized after extensive dialysis against 20 mM acetic acid.
<b>Reconstitution</b>	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in 20 mM acetic acid up to 100 μg/ml.
<b>Storage &amp; Stability</b>	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

## Examples

Lane 1: 2 µg of PDGF-BB, Rat, non-reducing (NR)

Lane 2: 2 µg of PDGF-BB, Rat, reducing (R)

&gt; 95% 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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