

## PDGF-BB Protein, Rat, Recombinant

### General Information

Synonyms:	SIS;PDGF-2;platelet derived growth factor subunit B;c-sis;IBGC5;PDGFBB;PDGF2;SSV
Protein Construction:	Ser74-Thr182
Species:	Rat
Expression Host:	E. coli
Accession:	Q05028
Molecular Weight:	~24.6 kDa (Non-reducing conditions)

### QC Testing

Biological Activity:	ED 50 < 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.
Purity:	> 95% as determined by SDS-PAGE
Endotoxin:	< 0.2 EU/μg of protein as determined by the LAL method.
Formulation:	Lyophilized after extensive dialysis against 20 mM acetic acid.

### Preparation and Storage

#### 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 20 mM acetic acid up to 100 μg/ml.

#### Stability & Storage:

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.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein 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.

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