

**Product** Data Sheet



## PDGF-BB Protein, Human (His)

Cat. No.: HY-P7055B

Synonyms: rHuPDGF-BB; PDGF-2; GDGF; ODGF; SIS; SSV

Species: Human Source: E. coli

P01127 (S82-T190) Accession:

Gene ID: 5155

Molecular Weight: approximately 15 kDa

## **PROPERTIES**

SLGSLTIAEP AMIAECKTRT EVFEISRRLI DRTNANFLVW PPCVEVQRCS GCCNNRNVQC RPTQVQLRPV QVRKIEIVRK KPIFKKATVT LEDHLACKCE TVAAARPVT

**Biological Activity** 

Measured in a cell proliferation assay using NIH 3T3 mouse fibroblast cells. The ED<sub>50</sub> for this effect is 5.712 ng/mL, corresponding to a specific activity is 1.751×10<sup>5</sup> units/mg.

**Appearance** 

Lyophilized powder.

**Formulation** 

Lyophilized from a 0.2 μm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, 200 mM arginine, pH 8.0.

**Endotoxin Level** 

<1 EU/µg, determined by LAL method.

Reconsititution

It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH<sub>2</sub>O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

Storage & Stability

Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping

Room temperature in continental US; may vary elsewhere.

## **DESCRIPTION**

Background

GMP PDGF-BB Protein, a pivotal growth factor, assumes a central role in regulating embryonic development, cell proliferation, migration, survival, and chemotaxis. Renowned for its potent mitogenic effects on mesenchymal cells, GMP PDGF-BB is indispensable for the normal proliferation and recruitment of pericytes and vascular smooth muscle cells in various tissues, including the central nervous system, skin, lung, heart, and placenta. Its vital contributions extend to the development of blood vessels and kidney glomeruli, highlighting its significance in vascular and renal physiology. A key participant in wound healing, GMP PDGF-BB's signaling dynamics are finely tuned through heterodimer formation with

PDGFA. Present as an antiparallel homodimer, GMP PDGF-BB engages in disulfide-linked interactions with PDGFRA and PDGFRB homodimers, as well as with heterodimers formed by PDGFRA and PDGFRB. Additionally, it forms antiparallel heterodimers with PDGFA, further diversifying its regulatory repertoire. Notably, GMP PDGF-BB establishes connections with XLKD1, LRP1, and SORL1, contributing to a network of interactions that modulate its multifaceted functions.

Caution: Product has not been fully validated for medical applications. For research use only.

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