

# Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten! See the following pages for more information!



## Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

## Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# **DATA SHEET**

#### GFH18AF

## Recombinant Human PDGF-BB (Animal-Free)

#### Description

Platelet-Derived Growth Factor (PDGF) is an important regulator of cell growth, proliferation, and angiogenesis. PDGF synthesis is induced by IL-1, IL-6, TNF- $\alpha$ , TGF- $\beta$  and EGF signaling. PDGF functions as a mitogenic growth hormone on cells of mesenchymal lineage, such as smooth muscle and glial cells. PDGF is also stored in the  $\alpha$ -granules of platelets and is released upon adherence to traumatized tissues. PDGF is a dimeric glycoprotein formed by two A chains (AA), two B chains (BB), or as a heterodimer with an A and a B chain (AB). The PDGF dimer binds the cell surface receptor tyrosine kinases PDGFR-a and PDGFR-b.

This product is produced with no animal derived raw products. All processing and handling employs animal free equipment and animal free protocols.

Length110 / 220 aaMolecular Weight12.4 / 24.9 kDaSourceE. coli

Accession Number P01127

Purity ≥95% determined by reducing and non-reducing SDS-PAGE

#### **Specifications**

Alternative Names Platelet-Derived Growth Factor, GDGF, ODGF, PDGF BB

Biological Activity Human PDGF-BB is fully biologically active when compared to standard. The activity is determined by the

proliferation of NIH 3T3 cells and it is typically less than 20 ng/ml. This corresponds to an expected specific

activity of 5.0 x 104 units/mg.

Endotoxin Level ≤1.00 EU/µg as measured by kinetic LAL

Formulation Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5

AA Sequence MSLGSLTIAE PAMIAECKTR TEVFEISRRL IDRTNANFLV WPPCVEVQRC SGCCNNRNVQ

CRPTQVQLRP VQVRKIEIVR KKPIFKKATV TLEDHLACKC ETVAAARPVT

#### **Preparation and Storage**

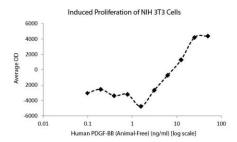
Reconstitution

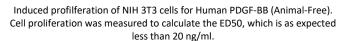
Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at 0.1 mg/ml, which can be further diluted into other aqueous solutions.

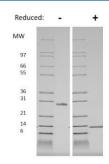
**Stability and Storage** 

- 12 months from date of receipt when stored at -20°C to -80°C as supplied.
- 1 month when stored at 4°C after reconstituting as directed.
- 3 months when stored at -20°C to -80°C after reconstituting as directed.

#### Data







Non-reducing (-) and reducing (+) conditions in a 4 - 20% Tris-Glycine gel stained with Coomassie Blue. 1  $\mu$ g of protein was loaded in each lane. Human PDGF-BB has a predicted Mw of 24.9 kDa (each monomer is 12.4 kDa).