

# **DATA SHEET**

# GFM54

## Recombinant Mouse PDGF-AA

### 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.

Length126 / 252 aaMolecular Weight14.4 / 28.9 kDaSourceE. coli

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

## Specifications

**Accession Number** 

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

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

induction of BALB/c 3T3 cells proliferation and it is typically less than 10 ng/ml. This corresponds to an expected

specific activity of 1.0 x 10<sup>5</sup> units/mg.

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

P04085

Formulation Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)

AA Sequence MSIEEAVPAV CKTRTVIYEI PRSQVDPTSA NFLIWPPCVE VKRCTGCCNT SSVKCQPSRV

HHRSVKVAKV EYVRKKPKLK EVQVRLEEHL ECACATTSLN PDYREEDTGR PRESGKKRKR KRLKPT

#### 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

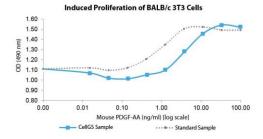
product with sterile water at 0.1 mg/ml, which can be further diluted into other aqueous solutions.

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



Induced proliferation of BALB/c 3T3 cells assay for Mouse PDGF-AA. Cell proliferation was measured to calculate the ED50, which is as expected less than 10 ng/ml.