

## GFM58 Recombinant Mouse PDGF-BB

### Description

Platelet-Derived Growth Factor (PDGF) is an important regulator of cell growth, proliferation, and angiogenesis. Mouse PDGF is crossreactive with human and monkey. 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.

<b>Length</b>	110 / 220 aa
<b>Molecular Weight</b>	12.4 / 24.7 kDa
<b>Source</b>	E. coli
<b>Accession Number</b>	P31240
<b>Purity</b>	$\geq$ 95% determined by reducing and non-reducing SDS-PAGE

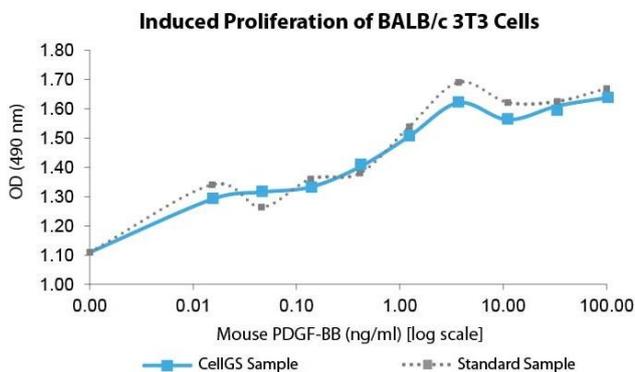
### Specifications

<b>Alternative Names</b>	Platelet-Derived Growth Factor, GDGF, ODF, PDGF BB, PDGF
<b>Biological Activity</b>	Mouse PDGF-BB 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 2 ng/ml. This corresponds to an expected specific activity of $5.0 \times 10^5$ units/mg.
<b>Endotoxin Level</b>	$\leq$ 1.00 EU/ $\mu$ g as measured by kinetic LAL
<b>Formulation</b>	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium citrate, pH 3.0
<b>AA Sequence</b>	MSLGSLAAAE PAVIAECKTR TEVFQISRNL IDRTNANFLV WPPCVEVQRC SGCCNNRNVQ CRASQVQMRP VQVRKIEIVR KKPIFKKATV TLEDHLACKC ETIVTPRPVT

### Preparation and Storage

<b>Reconstitution</b>	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.
<b>Stability and Storage</b>	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-BB. Cell proliferation was measured to calculate the ED50, which is as expected less than 2 ng/ml.