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Zuschläge

- Mindermengenzuschlag
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- Expressversand

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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- α , TGF- β 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 α -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.

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

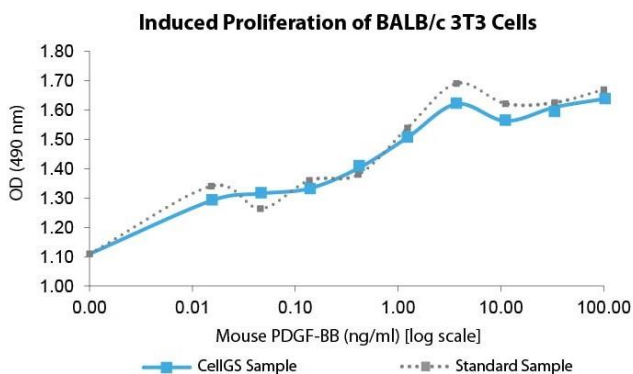
Specifications

Alternative Names	Platelet-Derived Growth Factor, GDGF, ODF, PDGF BB, PDGF
Biological Activity	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 5.0×10^5 units/mg.
Endotoxin Level	\leq 1.00 EU/ μ g as measured by kinetic LAL
Formulation	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium citrate, pH 3.0
AA Sequence	MSLGSLAAAE PAVIAECKTR TEVQISRNL IDRTNANFLV WPPCVEVQRC SGCCNNRNVQ CRASQVQMRP VQVRKIEIVR KKPIFKKATV TLEDHLACKC ETIVTPRPVT

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-BB. Cell proliferation was measured to calculate the ED50, which is as expected less than 2 ng/ml.