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32-12278: Mouse Platelet Derived Growth Factor-BB

Gene :	Pdgfb
Gene ID :	18591
Uniprot ID :	P31240
Alternative Name :	Platelet-derived growth factor subunit B,Platelet-derived growth factor B chain, Â Â Platelet-derived growth factor beta polypeptideÂ Â , Proto-oncogene c-Sis

Description

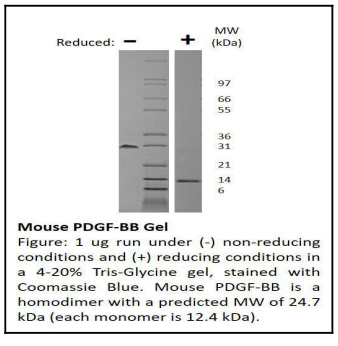
Source: Genetically modified E.coli.
Predicted MW:Â Dimer, 12.4/24.7 kDa (110/220 aa)
Platelet-derived growth factor (PDGF) is an important regulator of cell growth, proliferation, and angiogenesis. PDGF synthesis is induced by IL-1, IL-6, TNF-alpha, TGF-beta and EGF signaling. PDGF functions as a mitogenic 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-alpha and PDGFR-beta .

Product Info

Amount :	10 µg / 100 µg
Purification :	Reducing and Non-Reducing SDS PAGE at >= 95%
Content :	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium citrate, pH 3.0 Sterile water at 0.1 mg/mL
Storage condition :	Store at -20°C
Amino Acid :	MSLGSLAAAE PAVIAECKTR TEVFQISRNL IDRTNANFLV WPPCVEVQRC SGCCNNRNVQ CRASQVQMRP VQVRKIEIVR KKPIFKKATV TLEDHLACKC ETIVTPRPVT

Application Note

Endotoxin: Less than 0.1 ng/Ã‚Âµg (1 IEU/Ã‚Âµg) as determined by LAL test.
Biological Activity was determined by 3T3 cell proliferation at <=2 ng/mL ; >= 5.0 x 10^5 units/mL Ã‚Â . Centrifuge vial before opening, Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80Ã‚Â°C and avoid repeat freeze thaws. Upon reconstitution, a small amount of visible precipitate can be expected. A 10% overfill has been added to the total material vialed to compensate for this loss.



Mouse PDGF-BB Gel
Figure: 1 ug run under (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Mouse PDGF-BB is a homodimer with a predicted MW of 24.7 kDa (each monomer is 12.4 kDa).

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