Pdgfb
Recombinant Mouse Platelet-Derived Growth Factor BB

Catalog No.	CRP138A	**Quantity:**	2 µg
	CRP138B		10 µg
	CRP138C		1.0 mg
	CRP138D		100 µg

Alternate Names: Glioma-derived growth factor, GDGF, Osteosarcoma-derived Growth Factor, ODGF, PDGF2, Proto-oncogene c-sis

Description: Platelet-Derived Growth Factor (PDGF) is a mitogenic peptide growth hormone carried in the alpha-granules of platelets and is released when platelets adhere to traumatized tissues. Connective tissue cells near the traumatized region respond by initiating the process of replication. The synthesis of PDGF can be induced by IL-1, IL-6, TNF-alpha, TGF-beta and EGF. 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-α and PDGFR-β.

Gene ID: 18591

UniProt ID: P31240

Source: *E. coli*

Molecular Weight: Dimer, 12.4/24.7 kDa (110/220 aa)

Formulation: Lyophilized from a sterile filtered aqueous solution containing 10 mM sodium citrate, pH 3.0

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

Endotoxin Level: ≤ 1 EU/µg protein, by kinetic LAL analysis.

Biological Activity: ≤ 2 ng/ml, by the dose-dependent proliferation in mouse 3T3 fibroblasts.

Specific Activity: ≥ 5.0 x 10^5 units/mg

Amino Acid Sequence: MSLGSLAAAE PAVIAECKTR TEVFQISRNL IDRTNANFLV WPPCVEVQRC SGCCNNRNVQ CRASQVQMRP VQVRKIEIVR KKPIFKKATV TLEDHLACKC ETIVTPRPVT

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 a concentration of 0.1 mg/ml, which can be further diluted into other aqueous solutions.

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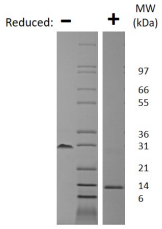
Storage & Stability: Store as supplied at -20°C to -80°C for up to 1 year. Upon reconstitution, prepare working aliquots and store at -20°C to -80°C. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage.
Avoid repeated freeze-thaw cycles.



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).

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

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