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PDGFB
Recombinant Human PDGF-BB

Catalog No.	CRP302B	**Quantity:**	10 µg
	CRP302C		1.0 mg
	CRP302D		100 µg

Alternate Names: PDGF-2, PDGF2, SIS, SSV, IBGC5, c-sis, GDGF, ODGF

Description: Platelet-Derived Growth Factor (PDGF) is a member of the protein family which includes vascular endothelial growth factors (VEGF). PDGF is proteolytically processed from a pre/pro-protein to generate PDGF subunit B, which can homodimerize, or can heterodimerize with the related PDGF subunit A. These proteins bind and activate PDGF receptor tyrosine kinases. PDGF is a mitogenic peptide growth hormone carried in the alpha-granules of platelets, 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-α, TGF-β and EGF.

Gene ID: 5155

UniProt ID: P01127

Source: *E. coli*

Molecular Weight: 12.4/24.9 kDa (110/220 aa) homodimer

Formulation: Lyophilized from sterile filtered 10 mM sodium phosphate, pH 7.5

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

Endotoxin Level: ≤ 0.1 EU/µg by kinetic LAL

Biological Activity: ED_{50} ≤ 20 ng/ml, determined by the dose-dependent proliferation of NR6R-3T3 cells.

Specific Activity: ≥ 5.0 x 10^4 U/mg

Amino Acid Sequence: MSLGSLTIAE PAMIAECKTR TEVFEISRRL IDRTNANFLV WPPCVEVQRC SGCCNNRNVQ CRPTQVQLRP VQVRKIGIVR KKPIFKKATV TLGDHLACKC ETVAAARPVT □

Reconstitution: **Centrifuge vial prior to opening.** Reconstitute in sterile water to a concentration of 0.1 mg/mL by gently pipetting and washing down the sides of the vial to ensure full recovery of the protein. Allow several minutes to ensure full solubilization.
DO NOT VORTEX.

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.

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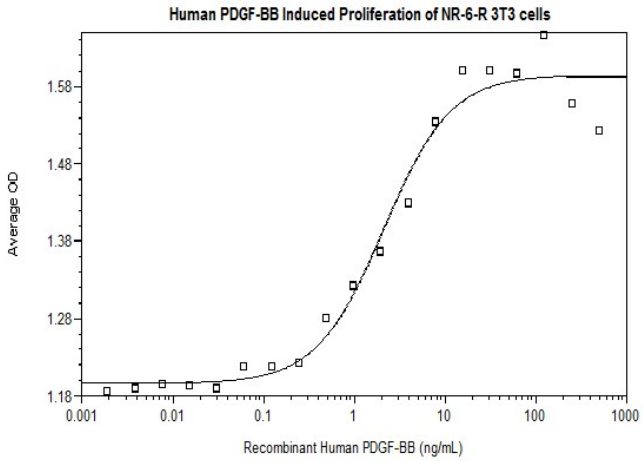

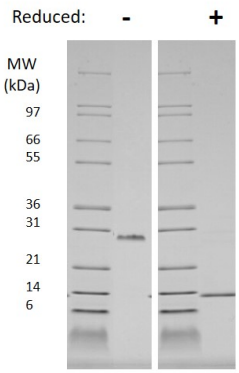

Human PDGF-BB Gel
Figure: 1 ug in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human PDGF-BB is a disulfide linked homodimer with a predicted MW of 24.9 kDa (each monomer is 12.4 kDa).

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

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