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PDGFB
Recombinant Equine PDGF-BB, Animal Free

Catalog No.	CRE050A-AF	**Quantity:**	5 µg
	CRE050B-AF		20 µg
	CRE050C-AF		1.0 mg
	CRE050D-AF		100 µg

Alternate Names: Platelet derived growth factor subunit B

Description: Platelet-Derived Growth Factor (PDGF) is a member of the protein family which includes vascular endothelial growth factors (VEGF), important regulators of cell growth, proliferation, and angiogenesis. 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. The PDGF dimer binds the cell surface receptor tyrosine kinases PDGFR-α and PDGFR-β.

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: 100070283

UniProt ID: A0A3Q2GVH4

Source: *E. coli*
Manufactured without Animal-derived products, in an Animal Free facility.

Molecular Weight: 24.8 kDa (110/220 aa) dimer

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

Purity: ≥95.0% by reducing and non-reducing SDS-PAGE

Endotoxin Level: < 1.0 EU/µg by kinetic LAL

Biological Activity: $ED_{50} \leq$ 30 ng/ml, determined by the dose-dependant proliferation of 3T3 cells.

Specific Activity: $\geq 3.3 \times 10^4$ IU/mg

Amino Acid Sequence: MSLGSLAVAE PAMIAECKTR TEVFEISRRL IDRTNANFLV WPPCVEVQRC SGCCNNRHVQ CRPTQVQLRP VQVRKIEIVR KKPTFKKATV TLEDHLACKC ETVGAARPVT

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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