cellsciences.com

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

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

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

E-mail: info@cellsciences.com

Website: <u>www.cellsciences.com</u>

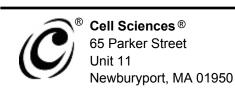
such as 0.1% HSA or BSA is added for long term storage.

Toll Free: 888-769-1246

Phone: 978-572-1070

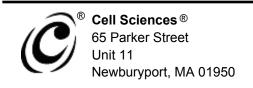
Fax: 978-992-0298

Avoid repeated freeze-thaw cycles.



cellsciences.com

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



Toll Free: 888-769-1246 E-mail: info@cellsciences.com
Phone: 978-572-1070 Website: www.cellsciences.com
Fax: 978-992-0298