

PDGF-BB Protein, Rhesus Macaque (P.pastoris, His)

Cat. No.:	HY-P74641
Synonyms:	Platelet-derived growth factor subunit B; PDGF-2; PDGFB
Species:	Rhesus Macaque
Source:	P. pastoris
Accession:	XP_001097395 (S82-T190)
Gene ID:	703173
Molecular Weight:	Approximately 14.2 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 30 % CAN, 0.1 % TFA. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Platelet-derived growth factor (PDGF) is a potent mitogen and chemical attractant of mesenchymal cells and osteoblasts and stimulates angiogenic molecules that play an important role in bone regeneration. Platelet-derived growth factor-BB, a member of the PDGF family, promotes cell proliferation, survival and migration by binding to the tyrosine kinase PDGF receptor. PDGF-BB has a beneficial effect on hemorrhagic shock, which is closely related to the improvement of vascular reactivity and hemodynamics by targeting CX43. PDGF-BB acts in subsomatic cavernous smooth muscle cells (CCSMCs) by binding to PDGFR. PDGF-BB promotes tendon healing. PDGF-BB plays an important role in neuroregulation after spinal cord hemisection in primates ^{[1][2][3]} .
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Caution: Product has not been fully validated for medical applications. For research use only.

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