PDGF-BB Protein, Canine (P.pastoris, His)

Cat. No.:	HY-P74642
Synonyms:	Platelet-derived growth factor subunit B; PDGF-2; PDGFB
Species:	Canine
Source:	P. pastoris
Accession:	Q6Q7I7 (S82-T190)
Gene ID:	442986
Molecular Weight:	Approximately 14.9 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.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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	PDGF-BB, a pivotal growth factor, assumes a central role in governing diverse cellular processes, including embryonic development, cell proliferation, migration, survival, and chemotaxis. As a potent mitogen for mesenchymal cells, PDGF-BB is indispensable for normal proliferation and recruitment of pericytes and vascular smooth muscle cells in various tissues, encompassing the central nervous system, skin, lung, heart, and placenta. Essential for blood vessel development and the formation of kidney glomeruli, PDGF-BB emerges as a key player in wound healing. The dynamic signaling of PDGF-BB is finely tuned through the formation of antiparallel homodimers linked by disulfide bonds and antiparallel heterodimers with PDGFA. These dimers intricately interact with PDGFRA and PDGFRB homodimers, as well as heterodimers formed by PDGFRA and PDGFRB, illustrating the complexity of PDGF-BB's engagement in various cellular activities. Additionally, PDGF-BB engages in interactions with XLKD1, LRP1, and SORL1, further highlighting its versatile involvement in cellular regulation.

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