PDGF-AA Protein, Human (P.pastoris, His)

Cat. No.:	HY-P74643
Synonyms:	Platelet-derived growth factor subunit A; PDGF-1; PDGFA
Species:	Human
Source:	P. pastoris
Accession:	P04085 (S87-T211)
Gene ID:	5154
Molecular Weight:	Approximately 16.3 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-A Protein takes center stage as a pivotal growth factor regulating embryonic development, cell proliferation, migration, survival, and chemotaxis. Acknowledged for its potent mitogenic effects on mesenchymal cells, PDGF-A is indispensable for various developmental processes, including the formation of lung alveolar septa, gastrointestinal tract development, Leydig cell maturation, spermatogenesis, and the normal development of oligodendrocytes, contributing to myelination in the spinal cord and cerebellum. Furthermore, PDGF-A assumes a crucial role in wound healing dynamics. The intricacies of its signaling pathway involve modulation through the formation of heterodimers with PDGFB, demonstrating its regulatory versatility. Structurally, PDGF-A adopts a homodimeric configuration with an antiparallel disulfide-linked dimer, and it forms heterodimers with PDGFB, engaging in interactions with PDGFRA homodimers and heterodimers formed by PDGFRA and PDGFRB. Additionally, PDGF-A exhibits an interaction with CSPG4, adding another layer to its multifaceted involvement in cellular processes.

Caution: Product has not been fully validated for medical applications. For research use only.

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