PDGF-BB Protein, Bovine

Cat. No.:	HY-P701237
Synonyms:	PDGFB; PDGFB protein; Platelet derived growth factor subunit B
Species:	Bovine
Source:	P. pastoris
Accession:	B1H0W5 (S82-T190)
Gene ID:	540106
Molecular Weight:	10-18 kDa

PROPERTIES

AA Sequence	S L G S P T V A A E P A V I A E C K T R T E V F E I S R R L I D R T N A N F L V W P P C V E V Q R C S G C C N N R N V Q C R P T Q V Q D R K V Q V K K I E I V R K K K I F K K A T V T L V D H L A C R C E T V V A R A V T
Biological Activity	Measure by its ability by a dose-response proliferation assay using murine Balb/c 3T3 cells. The ED50 for this effect is <20 ng/mL. Thespecific activity of this protein is > 0.5×10^5 IU/mg. (It is recommended to experimentally determine the optimal concentration for each specific application by performing a dose response assay.)
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM NaAc, pH 5.0.
Endotoxin Level	< 0.1 EU/μg of protein by gel clotting method
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	The PDGF-BB Protein is a pivotal member of the PDGF/VEGF growth factor family, indicating its crucial role in cellular signaling and tissue development. As part of this growth factor family, PDGF-BB likely shares conserved structural and functional characteristics with related proteins, contributing to cell growth, angiogenesis, and vascular development. Its membership in the PDGF/VEGF growth factor family highlights its significance in orchestrating essential physiological processes necessary for tissue homeostasis. The study of PDGF-BB provides insights into its specific functions within the

context of the growth factor family, offering potential applications in therapeutic interventions and a deeper understanding of its broader impact on cellular processes involved in vascular development and maintenance. Further exploration of PDGF-BB's role promises to enhance our comprehension of its contributions to normal physiology and pathological conditions.

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