

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

Cat. No.:	HY-P73352
Synonyms:	Platelet-derived growth factor subunit B; PDGF subunit B; PDGF2; PDGFB; SIS
Species:	Mouse
Source:	P. pastoris
Accession:	P31240 (S82-T190)
Gene ID:	18591
Molecular Weight:	Approximately 14.2 kDa

PROPERTIES

Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Human PDGFRB at 2 µg/mL (100 µl/well) can bind Mouse PDGF-B His, the EC ₅₀ of Mouse PDGF-B His is 4-24 ng/mL.
Appearance	Solution
Formulation	Supplied as a 0.2 µm filtered solution of 30 % CAN, 0.1 % TFA.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

DESCRIPTION

Background	PDGF-BB, a crucial growth factor, assumes a central role in regulating diverse cellular processes, encompassing embryonic development, cell proliferation, migration, survival, and chemotaxis. As a potent mitogen for mesenchymal cells, PDGF-BB is indispensable for the normal proliferation and recruitment of pericytes and vascular smooth muscle cells in various tissues, including the central nervous system, skin, lung, heart, and placenta. It is essential for blood vessel development and the formation of kidney glomeruli, highlighting its multifaceted contributions to tissue homeostasis. Furthermore, PDGF-BB plays a pivotal role in wound healing. The intricacies of its signaling are modulated by the formation of antiparallel homodimers, linked by disulfide bonds, and antiparallel heterodimers with PDGFA. These dynamic dimers engage in intricate interactions with PDGFRA and PDGFRB homodimers, as well as heterodimers formed by PDGFRA and PDGFRB. Additionally, PDGF-BB interacts with XLKD1, LRP1, and SORL1, further emphasizing its versatile involvement in cellular regulation.
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Caution: Product has not been fully validated for medical applications. For research use only.

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