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Product Data Sheet

PDGF-BB Protein, Human

Cat. No.:	HY-P7055
Synonyms:	rHuPDGF-BB; PDGF-2; GDGF; ODGF; SIS; SSV
Species:	Human
Source:	E. coli
Accession:	P01127 (S82-T190)
Gene ID:	5155
Molecular Weight:	14-24.8 kDa

DESCRIPTION

BackgroundRecombinant Human Platelet-derived Growth Factor-BB is the most active PDGF isoform, binds to PDGF receptor, promotes
diverse cell types proliferation and osteogenesis, and further stimulates bone formation in fracture or defect. Platelet-
derived growth factor-BB (PDGF-BB) is primarily secreted from platelet α-granules and is the most active PDGF isoform in
bone and other connective tissue as it can bind to all known PDGF receptors. PDGF-BB plays an important role in bone
regeneration by inducing mitogenesis, chemotaxis, extracellular matrix formation, and vascularization^[1]. Recombinant
Human Platelet-derived Growth Factor-BB (rhPDGF-BB) accelerates tendon healing by improving matrix remodeling,

increased collagen synthesis, and increased cell proliferation. Recombinant Human Platelet-derived Growth Factor-BB is also efficacious in a non-ruptured, degenerated, tendinopathy model. Furthermore, Recombinant Human Platelet-derived Growth Factor-BB addresses chronic tendinopathies by inducing proliferation and migration of progenitor cells and tenocytes, which stimulate structural repair of the degenerated tendon^[2].

REFERENCES

[1]. Sun H, et al. Recombinant human platelet-derived growth factor-BB versus autologous bone graft in foot and ankle fusion: A systematic review and meta-analysis. Foot Ankle Surg. 2017 Mar;23(1):32-39.

[2]. Solchaga LA, et al. Comparison of the effect of intra-tendon applications of recombinant human platelet-derived growth factor-BB, platelet-rich plasma, steroids in a rat achilles tendon collagenase model. J Orthop Res. 2014 Jan;32(1):145-50.

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

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