

PDGF-BB Protein, Mouse

Cat. No.:	HY-P7087
Synonyms:	rMuPDGF-BB; PDGF-2; GDGF; ODGF; SIS; SSV
Species:	Mouse
Source:	E. coli
Accession:	P31240 (S82-T190)
Gene ID:	18591
Molecular Weight:	Approximately 24.7 kDa

PROPERTIES

AA Sequence	<p>S L G S L A A A E P A V I A E C K T R T E V F Q I S R N L I D R T N A N F L V W</p> <p>P P C V E V Q R C S G C C N N R N V Q C R A S Q V Q M R P V Q V R K I E I V R K</p> <p>K P I F K K A T V T L E D H L A C K C E T I V T P R P V T</p>
Biological Activity	The ED ₅₀ is <2.5 ng/mL as measured by 3T3 cells, corresponding to a specific activity of >4 × 10 ⁵ units/mg.
Appearance	Lyophilized powder
Formulation	Lyophilized after extensive dialysis against 10 mM Sodium Citrate, pH 3.0.
Endotoxin Level	<0.2 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. 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	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] .
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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.

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

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