

## PDGF-BB Protein, Rat (His)

Cat. No.:	HY-P7278A
Synonyms:	rRtPDGF-BB; PDGF-2; Pdgfb
Species:	Rat
Source:	E. coli
Accession:	Q05028 (S74-T182)
Gene ID:	24628
Molecular Weight:	Approximately 15 kDa

### PROPERTIES

AA Sequence	<p>           M 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 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 K P V F K K A T V    T L E D H L A C K C    E T V V T P R P V T         </p>
Biological Activity	Measured in a cell proliferation assay using NIH3T3 mouse fibroblast cells. The ED <sub>50</sub> for this effect is 5.465 ng/mL, corresponding to a specific activity is 1.83×10 <sup>5</sup> units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, 200 mM arginine, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> 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	<p>Platelet derived growth factor (PDGF) is a potent mitogen and chemoattractant for mesenchymal and osteogenic cells and stimulates angiogenic molecules which play an essential role in bone regeneration<sup>[1]</sup>. Platelet-Derived Growth Factor-BB is a member of PDGF family, which promotes cell proliferation, survival and migration, through binding to the tyrosine kinase PDGF receptor. PDGF-BB exerts beneficial effects on haemorrhagic shock, which are closely related to targeting CX43 to improve vascular reactivity and haemodynamics. PDGF-BB functions in corporal cavernosum smooth muscle cells (CCSMCs) via binding to PDGFR<sup>[2]</sup>.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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