Recombinant Human Platelet Derived Growth Factor-BB (PDGF-BB)

Catalog Number PHG0044 (5 µg), PHG0045 (10 µg), PHG0046 (50 µg), PHG0041 (100 µg), PHG0043 (1 mg)

Pub. No. MAN0003588 Rev. B.0

Product specifications

Lot number	See product label.
Molecular weight	25.4 kDa, homodimer
Purity	>95% as determined by SDS PAGE analysis.
Amino acid sequence	SLGSLTIAEP AMIAECKTRT EVFEISRRLI DRTNANFLVW PPCVEVQRCS GCCNNRNVQC RPTQVQLRPV QVRKIEIVRK KPIFKKATVT LEDHLACKCE TVAAARPVT
Biological activity	ED_{50} <5.00 ng/mL, determined by the dose dependent proliferation of BALB/c 3T3 cells. Determine the optimal concentration for each specific application using an initial dose response assay.
Formulation	Lyophilized, carrier free.
Sterility	The protein is eluted in acetonitrile and then lyophilized under aseptic conditions.
Endotoxin	<0.1 ng/µg
Production	Produced in *E. coli* and purified via sequential chromatography.
Reconstitution recommendation	Centrifuge the vial briefly, before opening to bring the contents to the bottom. Reconstitute the lyophilized protein in 100 mM acetic acid containing 0.1% BSA to 0.1–1.0 mg/mL to regain full activity. Apportion the reconstituted protein into working aliquots and store at ≤ –20°C. Make any further dilutions of the reconstituted protein in low endotoxin medium or buffered solution with FBS or tissue culture grade BSA.
Suggested working dilutions	The optimal concentration should be determined for each specific application.
Storage	Store the lyophilized protein at 2–8°C, preferably desiccated. Upon reconstitution, apportion into working aliquots and store at ≤ –20°C. Avoid repeated freeze-thaw cycles.
Expiration date	Expires one year from date of receipt when stored as instructed.
References	Jin, P, et al. (1991) Recombinant platelet-derived growth factor-BB stimulates growth and inhibits differentiation of rat L6 myoblasts. J. Biol. Chem. 266(2):1245-1249. Dong, F, et al. (1998) Cyclin D3-associated kinase activity is regulated by p27kip1 in BALB/c 3T3 cells. Mol. Biol. Cell. 9(8):2081-2092. Dong, F, et al. (1998) The role of cyclin D3-dependent kinase in the phosphorylation of p130 in mouse BALB/c 3T3 fibroblasts. J. Biol. Chem. 273(11):6190-6195. Hauser, PJ, et al. (1997) p107 and p130 associated cyclin A has altered substrate specificity. J. Biol. Chem. 272(36):22954-22959. Zhang, X, Wharton, W, Donovan, M, Coppola, D, Croxton, R, Cress, WD, and Pledger, WJ. (2000) Density dependent growth inhibition of fibroblasts ectopically expressing p27kip1. Mol. Biol. Cell 11(6):2117-2130. Wharton, W, et al. (2000) Inhibition of mitogenesis in BALB/c-3T3 cells in trichostatin A. J. Biol. Chem. 275(43):33981-33987. Koh, JS, et al. (2000) Cytokine dysregulation induced by apoptotic cells is a shared characteristic of murine lupis. J. Immunol. 165:4190-4201.

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Explanation of Symbols

Symbol	Description	Symbol	Description	Symbol	Description
	Manufacturer		Catalog number		Batch code
	Use by		Temperature limitation		
	Consult instructions for use		Caution, consult accompanying documents		

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For descriptions of symbols on product labels or product documents, go to **thermofisher.com/symbols-definition**.

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