Recombinant Mouse Platelet Derived Growth Factor BB (PDGF–BB)

Catalog Numbers PMG0044 (10 µg), PMG0045 (25 µg), PMG0041 (100 µg), PMG0043 (1 mg)

Pub. No. MAN0003745 Rev. C.0

Product specifications

Lot number	See product label.
Molecular weight	25.0 kDa (homodimer), 12.5 kDa per subunit.
Purity	>95% as determined by SDS PAGE analysis.
Amino acid sequence	SLGSLAAAEP AVIAECKTRT EVFQISRNLI DRTNANFLVW PPCVEVQRCS GCCNNRNVQC RASQVQMRPV QVRKIEIVRK KPIFKKATVT LEDHLACKCE TIVTPRPVT
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 or –20°C for long term storage, preferably desiccated. Upon reconstitution, apportion into working aliquots and store at ≤ –20°C (not in a frost-free freezer). Avoid repeated freeze-thaw cycles.
Expiration date	Expires one year from date of receipt when stored as instructed.
References	Bonthron, DT, Sultan, P, and Collins, T. (1991) Structure of the murine c-Sis proto-oncogene (Sis, PDGFB) encoding the B chain of platelet-derived growth factor. Genomics 10:287-292. Kim, HR, Upadhyay, S, Korsemeyer, S, and Deuel, TF. (1994) Platelet-derived growth factor (PDGF) B and A homodimers transform murine fibroblasts depending on the genetic background of the cell. J. Biol. Chem. 269:30604-30608. Hoppe, J, Hoppe, V, Karenberg, TA, Fenn, A, Simm, A, and Sachinidis, A. (1994) Differential activation by platelet-derived growth factor-BB of mitogen activated protein kinases in starved or nonstarved AKR-2B fibroblasts. J. Cell. Physiol. 161:342-350. Patel, BK, Wang, L, Lee, CC, Taylor, WG, Pierce, JH, and LaRochelle, WJ. (1996) STAT6 and JAK1 are common elements in the platelet-derived growth factor and interleukin-4 signal transduction pathways in NIH 3T3 fibroblasts. J. Biol. Chem. 271:22175-22182. Chaudhary, LR, and Hruska, KA. (2001) The cell survival signal Akt is differentially activated by PDGF-BB, EGF, and FGF-2 in osteoblastic cells. J. Cell Biochem. 81:304-311.

Limited product warranty

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		

Life Technologies Corporation | 5781 Van Allen Way | Carlsbad, CA 92008
For descriptions of symbols on product labels or product documents, go to **thermofisher.com/symbols-definition**.

The information in this guide is subject to change without notice.