

Recombinant Rat Platelet-derived Growth Factor-BB

(Rat PDGF-BB)

Product Information

Product Name	Cat#	Size
Recombinant Rat Platelet-derived Growth Factor-BB (Rat PDGF-BB)	91603ES10	10 µg
	91603ES60	100 µg
	91603ES76	500 µg

Product Description

Platelet-derived growth factor (PDGF) was discovered as a major mitogenic factor present in serum but absent from plasma. In vitro, PDGF-BB stimulated MAP kinase activity and cell motility of isolated lymphatic endothelial cells. In vivo, PDGF-BB potently induced growth of lymphatic vessels. Expression of PDGF-BB in murine fibrosarcoma cells induced tumor lymphangiogenesis, leading to enhanced metastasis in lymph nodes. The PDGF signaling system contributes to and vascular remodeling. Growth factors such as PDGF exert potent effects on wound healing including the regeneration of tooth-supporting structures. Some research reports findings in this chronic myocardial infarction model were that bFGF, PDGF-BB and their combination all had a more pronounced angiogenic effect on the arteriolar than the capillary level. bFGF stimulated both capillary and arteriolar growth while PDGF-BB preferentially stimulated arterioles.

Product Properties

Synonyms	Becaplermin, ODGF, PDGF-2, PDGFBB, PDGF-BB	
Accession	Q05028	
GeneID	24628	
Source	E.coli-derived rat PDGF-BB protein, Ser74-Thr182.	
Molecular Weight	Approximately 24.4 kDa.	
AA Sequence	SLGSLAAAEP AVIAECKTRT EVFQISRNLI DRTNANFLVW PPCVEVQRCS GCCNNRNVQC	
	RASQVQMRPV QVRKIEIVRK KPVFKKATVT LEDHLACKCE TVVTPRPVT	
Tag	None	
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.	
Purity	> 98% by SDS-PAGE and HPLC analyses.	
Biological Activity	The ED ₅₀ as determined by a cell proliferation assay using murine Balb/c 3T3 cells is less than 2.0 ng/mL,	
	corresponding to a specific activity of > 5.0×10^5 IU/mg. Fully biologically active when compared to	
	standard.	
Endotoxin	< 0.1 EU per 1µg of the protein by the LAL method.	
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 6.9.	
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom.	
	Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0	
	mg/mL. Stock solutions should be apportioned into working aliquots and stored at \leq -20°C. Further	
	dilutions should be made in appropriate buffered solutions.	

Shipping and Storage



The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

- 1. Avoid repeated freeze-thaw cycles.
- 2. For your safety and health, please wear lab coats and disposable gloves for operation.
- 3. For research use only!