



Recombinant Mouse PDGF-BB

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	M10-125S
Size:	2 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	18591
Synonyms:	Platelet-derived growth factor-BB

PDGFs are disulfide-linked dimers consisting of two 12.0-13.5 kDa polypeptide chains, designated PDGF-A and PDGF-B chains. The three naturally occurring PDGFs; PDGF-AA, PDGF-BB and PDGF-AB, are potent mitogens for a variety of cell types including smooth muscle cells, connective tissue cells, bone and cartilage cells, and some blood cells. The PDGFs are stored in platelet α -granules and are released upon platelet activation. The PDGFs are involved in a number of biological processes, including hyperplasia, chemotaxis, embryonic neuron development, and respiratory tubule epithelial cell development. Two distinct signaling receptors used by PDGFs have been identified and named PDGFR- α and PDGFR- β . PDGFR- α is high-affinity receptor for each of the three PDGF forms. On the other hand, PDGFR- β interacts with only PDGF-BB and PDGF-AB. Recombinant murine PDGF-BB is a 24.4 kDa disulfide-linked homodimer of two B chains (218 total amino acids).

Sequence

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SLGSLAAAE PAVIAECKTR TEVFQISRNL IDRTNANFLV  
WPPCVEVQRC SGCCNNRNVQ CRASVQMRP VQVRKIEIVR  
KKPIFKKATV TLEDHLACKC ETIVTPRPVT
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Database References

Protein RefSeq:	NP_035187.2
Uniprot ID:	P31240
mRNA RefSeq:	NM_011057.3

Product Specifications

Expressed in	E. coli
Purity	> 98% by SDS-PAGE & HPLC analyses
Structural Information	disulphide-linked homodimer
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	218
MW:	24.4 kDa

Biological Activity: Determined by the dose-dependent stimulation of the proliferation of Balb/c 3T3 cells. The expected ED50 for this effect is 1.0-2.0 ng/ml.



AVOID REPEATED FREEZE AND THAW CYCLES!