



Recombinant Mouse PDGF-AA

20150227BB



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Cat.-no.:	M10-049S
Size:	2 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	18590
Synonyms:	Platelet-Derived Growth Factor-AA, Glioma-derived growth factor (GDGF), Osteosarcoma-derived Growth Factor (ODGF)

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 alpha-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-alpha and PDGFR-beta. PDGFR-alpha is high-affinity receptor for each of the three PDGF forms. On the other hand, PDGFR-beta interacts with only PDGF-BB and PDGF-AB. Recombinant murine PDGF-AA is a 28.7 kDa disulfide-linked homodimer of two A chains (250 total amino acids).

Sequence

SIEEAVPAV CKTRTVIYEI PRSQVDPTSA NFLIWPPCVE
 VKRCTGCCNT SSVKQCPSRV HHRSVKVAKV EYVRKKPKLK
 EVQVRLEEHL ECACATSNLN PDHREETGR RRESGKNRKR KRLKPT

Database References

Protein RefSeq:	NP_032834.1
Uniprot ID:	P20033
mRNA RefSeq:	NM_008808.3

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):	250
MW:	28.7 kDa

Biological Activity: Determined by the dose-dependent stimulation of the proliferation of Balb/c 3T3 cells. The expected ED50 for this effect is 8-10 ng/ml.



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Specification/Data Sheet