

Active Recombinant Mouse BMP-4

Cat. No. Bmp4-583M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	BMP-4 Mouse Recombinant produced in E.coli is a fully active homodimeric protein consisting of two 106 amino acid subunits which correspond to amino acids 303-408 of the full length BMP-4 precursor.
Species	Mouse
Source	E.coli
ProteinLength	303-408 a.a.
Description	Bone morphogenetic proteins (BMPs) constitute a subfamily within the TGF- β superfamily of structurally related signaling proteins. Members of this superfamily are widely distributed throughout the body and are involved in diverse physiological processes during both pre- and postnatal life. Like BMP-7, BMP-4 is involved in the development and maintenance of bone and cartilage. Reduced expression of BMP-4 is associated with a number of bone diseases, including the heritable disorder Fibrodysplasia Ossificans Progressiva
Bio-activity	Determined by its ability to induce alkaline phosphatase production by ATDC-5 cells. The expected ED50 for this effect is 5-15 ng/ml.
AA Sequence	KKNKNCRRHS LYVDFSDVGW NDWIVAPPGY QAFYCHGDCP FPLADHLNST NHAIVQTLVN SVNSSIPKAC CVPTELSAIS MLYLDEYDKV VLKNYQEMVV EGCGCRKKNK NCRRHSLYVD FSDVGWNDWI VAPPGYQAFY CHGDCPFPLA DHLNSTNHAI VQTLVNSVNS SIPKACCVPT ELSAISMLYL DEYDKVVLKN

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YQEMVVEGCG CR

Purity Greater than 98% by SDS-PAGE gel and HPLC analyses.

Full Length Full L.

GENE INFORMATION

Gene Name [Bmp4 bone morphogenetic protein 4 \[Mus musculus \]](#)

Official Symbol Bmp4

Synonyms BMP4; bone morphogenetic protein 4; BMP-2B; bone morphogenetic protein 2B; Bmp-4; Bmp2b; Bmp2b1; Bmp2b-1;

Gene ID [12159](#)

mRNA Refseq [NM_007554](#)

Protein Refseq [NP_031580](#)

Pathway Adipogenesis, organism-specific biosystem; Basal cell carcinoma, organism-specific biosystem; Basal cell carcinoma, conserved biosystem; ESC Pluripotency Pathways, organism-specific biosystem; Hedgehog signaling pathway, organism-specific biosystem; Hedgehog signaling pathway, conserved biosystem; Pathways in cancer, organism-specific biosystem

Function BMP receptor binding; chemoattractant activity; cytokine activity; growth factor activity; heparin binding; protein binding; protein homodimerization activity;

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