

## Active Recombinant Mouse BMP-4

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

### SPECIFICATION

<b>Product Overview</b>	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.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>ProteinLength</b>	303-408 a.a.
<b>Description</b>	Bone morphogenetic proteins (BMPs) constitute a subfamily within the TGF- $\beta$ 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
<b>Bio-activity</b>	Determined by its ability to induce alkaline phosphatase production by ATDC-5 cells. The expected ED50 for this effect is 5-15 ng/ml.
<b>AA Sequence</b>	KKNKNCRRHS LYVDFSDVGW NDWIVAPPGY QAFYCHGDCP FPLADHLNST NHAIVQTLVN SVNSSIPKAC CVPTELSAIS MLYLDEYDKV VLKNYQEMVV EGCGCRKKNK NCRRHSLYVD FSDVGWNDWI VAPPGYQAFY CHGDCPFPLA DHLNSTNHAI VQTLNSVNS SIPKACCVPT ELSAISMLYL DEYDKVVLKN

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA