

Recombinant Murine BMP4

Cat. No. Bmp4-578TM **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Murine BMP4 encoding murine BMP4 was expressed in E.coli.
Species	Mouse
Source	E.coli
Description	<p>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. PeproTech's E.coli derived murine BMP-4 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.</p>
Biological Activity	<p>Determined by its ability to induce alkaline phosphatase production by ATDC-5 cells. The expected ED50 for this effect is 5-15 ng/ml.</p>
AA Sequence	<p>KKNKNCRRHS LYVDFSDVGW NDWIVAPPGY QAFYCHGDCP FPLADHLNSTNHAI VQTLVN SVNSSIPKAC CVPTELSAIS MLYLDEYDKV VLKNYQEMVV EGCGCRKKNK NCRRHSLYVDFSDVGWNDWI VAPPGYQAFY CHGDCPFPLA DHLNSTNHAI VQTLVNSVNS SIPKACCVPT ELSAISMLYLDEYDKVVLKN YQEMVVEGCG CR</p>

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

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

GENE INFORMATION

Gene Name [Bmp4 bonemorphogenetic protein4 \[Mus musculus \]](#)

Official Symbol Bmp4

Synonyms Bmp4; bonemorphogenetic protein 4; Bmp-4; Bmp2b; Bmp2b1;Bmp2b-1; BMP-2B; bonemorphogenetic protein 2B

Gene ID [12159](#)

mRNA Refseq [NM_007554](#)

Protein Refseq [NP_031580](#)

UniProt ID [Q3ULR1](#)

Chromosome Location 14 C1

Pathway Adipogenesis; Basalcell carcinoma; ESCPluripotency Pathways; Hedgehog signaling pathway;Pathways in cancer; PluriNetWork;TGF Beta Signaling Pathway; TGF-betasignaling pathway

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

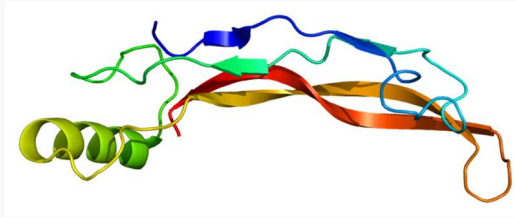
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