

### 32-20043: Recombinant Murine BMP-4(Discontinued)

**Reactivity :** mouse,

**Alternative Name :** Bone Morphogenetic Protein-4, BMP-2B, DVR4

#### Description

**Source:** **E.coli** 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. 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. The calculated molecular weight of Recombinant Murine BMP-4 is 23.9 kDa.

#### Product Info

**Amount :** 2 µg / 10 µg

**Purification :** Purity: >= 98% by SDS-PAGE gel and HPLC analyses.

**Content :** This recombinant protein is supplied in lyophilized form.

**Amino Acid :** KKNKNCRRHS LYVDFSDVGW NDWIVAPPGY QAFYCHGDCP FPLADHLNST NHAIVQTLVN SVNSSIPKAC  
CVPTELSAIS MLYLDEYDKV VLKNYQEMVV ECGCR

#### Application Note

Determined by its ability to induce alkaline phosphatase production by ATDC-5 cells. The expected ED<sub>50</sub> for this effect is 5-15 ng/ml.