

## Recombinant Human BMP-4

**CATALOG #:** 4578-10 10 µg  
4578-50 50 µg  
4578-1000 1 mg

**LOT #:** \_\_\_\_\_

**SOURCE:** *E. coli*

**PURITY:** >98% by SDS-PAGE and HPLC analyses  
Endotoxin level is <0.1 ng per µg of BMP-4.

**FORM:** Sterile filtered and lyophilized powder

### RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute to a concentration of 0.1-1.0 mg/ml in sterile 20 mM acetic acid. This solution can then be diluted into other aqueous buffers and stored at 4°C for 1 week or -20°C for future use.

### STORAGE CONDITIONS:

The lyophilized protein is best-stored desiccated below 0°C. Reconstituted BMP-4 should be stored in working aliquots at -20°C. For long-term storage, it is recommended to add a carrier protein (0.1% BSA). Prevent freeze/thaw cycles.

### DESCRIPTION:

BMPs (bone morphogenetic proteins) belong to the TGF-β superfamily of structurally related signaling proteins. As implied by their name, BMPs promote and regulate bone development, growth, remodeling and repair, in both prenatal development and postnatal growth of eye, heart, kidney, skin, and other tissues. Recombinant human BMP-4 produced from *E. coli* is a 13 kDa monomeric, non-glycosylated, polypeptide chain containing 116 amino acid residues.

### BIOLOGICAL ACTIVITY:

BioVision's recombinant human BMP-4 is biologically active. The ED<sub>50</sub> as determined by dose-dependent induction of alkaline phosphatase activity with C2C12 cells is in the range of 2-12 µg/ml.

**FOR RESEARCH USE ONLY! Not to be used on humans.**

### RELATED PRODUCTS:

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- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

#### Cell Fractionation System

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- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

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- HAT Colorimetric Assay Kit & Reagents
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