

## Recombinant Human BMP4, His-tagged

Cat. No. BMP4-26171TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length protein, corresponding to amino acids 25-408 of Human BMP4 with His-MBP tag; 784 aa with tag, 90kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	25-408 a.a.
<b>Description</b>	<p>The protein encoded by this gene is a member of the bone morphogenetic protein family which is part of the transforming growth factor-beta superfamily. The superfamily includes large families of growth and differentiation factors. Bone morphogenetic proteins were originally identified by an ability of demineralized bone extract to induce endochondral osteogenesis in vivo in an extraskeletal site. This particular family member plays an important role in the onset of endochondral bone formation in humans, and a reduction in expression has been associated with a variety of bone diseases, including the heritable disorder Fibrodysplasia Ossificans Progressiva. Alternative splicing in the 5 untranslated region of this gene has been described and three variants are described, all encoding an identical protein.</p>
<b>Conjugation</b>	His
<b>Tissue specificity</b>	Expressed in the lung and lower levels seen in the kidney. Present also in normal and neoplastic prostate tissues, and prostate cancer cell lines.

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<b>Form</b>	Liquid
<b>Storage buffer</b>	Preservative: 0.5M Imidazole Constituents: 30% Glycerol, 0.5M Sodium chloride, 20mM Sodium phosphate, pH 7.4
<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>Sequence Similarities</b>	Belongs to the TGF-beta family.
<b>Full Length</b>	Full L.

## GENE INFORMATION

<b>Gene Name</b>	BMP4 bone morphogenetic protein 4 [ Homo sapiens ]
<b>Official Symbol</b>	BMP4
<b>Synonyms</b>	BMP4; bone morphogenetic protein 4; BMP2B;
<b>Gene ID</b>	652
<b>mRNA Refseq</b>	NM_001202
<b>Protein Refseq</b>	NP_001193
<b>MIM</b>	112262
<b>Uniprot ID</b>	P12644
<b>Chromosome</b>	14q22-q23

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**Location****Pathway**

Adipogenesis, organism-specific biosystem; Basal cell carcinoma, organism-specific biosystem; Basal cell carcinoma, conserved biosystem; Glypican 3 network, organism-specific biosystem; Heart Development, organism-specific biosystem;

**Function**

BMP receptor binding; chemoattractant activity; cytokine activity; growth factor activity; heparin binding;

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