

Recombinant Human BMP4, His-tagged

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

SPECIFICATION

Product Overview	Recombinant full length protein, corresponding to amino acids 25-408 of Human BMP4 with His-MBP tag; 784 aa with tag, 90kDa.
Species	Human
Source	E.coli
ProteinLength	25-408 a.a.
Description	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.
Conjugation	His
Tissue specificity	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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Form	Liquid
Storage buffer	Preservative: 0.5M Imidazole Constituents: 30% Glycerol, 0.5M Sodium chloride, 20mM Sodium phosphate, pH 7.4
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the TGF-beta family.
Full Length	Full L.

GENE INFORMATION

Gene Name	BMP4 bone morphogenetic protein 4 [Homo sapiens]
Official Symbol	BMP4
Synonyms	BMP4; bone morphogenetic protein 4; BMP2B;
Gene ID	652
mRNA Refseq	NM_001202
Protein Refseq	NP_001193
MIM	112262
Uniprot ID	P12644
Chromosome	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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