

## Recombinant Human BMP4 protein

**Cat. No.** BMP4-26170TH    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human BMP4(293-408aa) was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	Bone morphogenetic protein 4 (BMP-4) is a member of the bone morphogenetic protein family which belongs to the TGF-beta superfamily. This protein is a vital regulatory molecule that functions throughout bone and cartilage development, specifically tooth development, limb formation, bone induction, and fracture repair. In human embryonic development, BMP- 4 is required for the early differentiation of the embryo and establishing of a dorsal-ventral axis. And it is overexpressed in patients with fibrodysplasia ossificans progressiva.
<b>Form</b>	Liquid. In 10mM Sodium citrate buffer (pH 3.5), 10% glycerol
<b>Molecular Mass</b>	13.2 kDa (117 aa), confirmed by MALDI-TOF.
<b>AA Sequence</b>	MSPKHHSQRA RKKKNKNCRRH SLYVDFSDVG WNDWIVAPPG YQAFYCHGDC PFPLADHLNS TNHAIVQTLV NSVNSSIPKA CCVPTELSAISMLYLDEYDK VVLKNYQEMV VEGCGCR
<b>Endotoxin</b>	< 1.0 EU per 1 microgram of protein (determined by LAL method)
<b>Purity</b>	> 95% by SDS - PAGE

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**Storage** Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

**Concentration** 0.5 mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** [BMP4 bone morphogenetic protein 4 \[ Homo sapiens \]](#)

**Official Symbol** [BMP4](#)

**Synonyms** BMP4; bone morphogenetic protein 4; BMP2B; BMP-4; BMP-2B; bone morphogenetic protein 2B; ZYME; OFC11; BMP2B1; MCOPS6;

**Gene ID** [652](#)

**mRNA Refseq** [NM\\_001202](#)

**Protein Refseq** [NP\\_001193](#)

**MIM** [112262](#)

**UniProt ID** [P12644](#)

**Chromosome Location** 14q22-q23

**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;

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Hedgehog signaling pathway, organism-specific biosystem; Hedgehog signaling pathway, conserved biosystem;

**Function**

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

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