

## Recombinant Rat Bmp4 protein, His/S-tagged

Cat. No. Bmp4-215R Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Rat Bmp4 fused with His/S tag was expressed in E. coli.

**Species** Rat

**Source** E.coli

**Description**

Human BMP-4 is one of at least 15 structurally and functionally related BMPs, which are members of the transforming growth factor  $\beta$  (TGF- $\beta$ ) superfamily. BMPs were originally identified as protein regulators of cartilage and bone formation. However, they have since been shown to be involved in embryogenesis and morphogenesis of various tissues and organs. BMPs have also been shown to regulate the growth, differentiation, chemotaxis and apoptosis of various cell types, including mesenchymal cells, epithelial cells, hematopoietic cells and neuronal cells. BMP-4 is synthesized as large precursor molecules which are cleaved by proteolytic enzymes. The active form can consist of a dimer of two identical proteins or a heterodimer of two related bone morphogenetic proteins.

**Form** Lyophilized from sterile PBS, pH 7.4

**Purity** > 95 % as determined by SDS-PAGE

**Storage** Store at -70 centigrade. Avoid repeated freeze/thaw cycles.

### GENE INFORMATION

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<b>Gene Name</b>	Bmp4 bone morphogenetic protein 4 [ <i>Rattus norvegicus</i> ]
<b>Official Symbol</b>	Bmp4
<b>Synonyms</b>	BMP4; bone morphogenetic protein 4; BMP-4; BMP-2B; bone morphogenetic protein 2B; BOMPR4A;
<b>Gene ID</b>	25296
<b>mRNA Refseq</b>	NM_012827
<b>Protein Refseq</b>	NP_036959
<b>Chromosome Location</b>	15p14
<b>Pathway</b>	Adipogenesis, organism-specific biosystem; Basal cell carcinoma, organism-specific biosystem; Basal cell carcinoma, conserved biosystem; Hedgehog signaling pathway, organism-specific biosystem; Hedgehog signaling pathway, conserved biosystem; Pathways in cancer, organism-specific biosystem; TGF Beta Signaling Pathway, organism-specific biosystem;
<b>Function</b>	BMP receptor binding; BMP receptor binding; chemoattractant activity; chemoattractant activity; cytokine activity; cytokine activity; growth factor activity; heparin binding; heparin binding; protein homodimerization activity;

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