Recombinant Rat Bmp2 protein, His/S-tagged

Cat. No. Bmp2-212R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Bmp2 fused with His/S tag was expressed in E. coli.
Species	Rat
Source	E.coli
Description	BMP2 belongs to the transforming growth factor-beta (TGFB) superfamily of secreted growth factors. It is a disulfide-linked homodimer and induces bone and cartilage formation. In addition to its osteogenic activity, BMP2 plays an important role in cardiac morphogenesis and is expressed in a variety of tissues including lung, spleen, brain, liver, prostate ovary and small intestine. The functional form of BMP2 is a 26 kDa protein composed of two identical 114 amino acid polypeptide chains linked by a single disulfide bond. BMPs control fundamental events in early embryonic development, organogenesis and adult tissue homeostasis.
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

Gene Name	Bmp2 bone morphogenetic protein 2 [Rattus norvegicus]

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Official Symbol	Bmp2
Synonyms	BMP2; bone morphogenetic protein 2; BMP-2; BMP-2A; bone morphogenetic protein 2A;
Gene ID	29373
mRNA Refseq	NM_017178
Protein Refseq	NP_058874
Chromosome Location	3q36
Pathway	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; Id Signaling Pathway, organism-specific biosystem; Pathways in cancer, organism-specific biosystem;
Function	BMP receptor binding; BMP receptor binding; SMAD binding; SMAD binding; cytokine activity; growth factor activity; growth factor activity; phosphatase activator activity; phosphatase activator activity; protein domain specific binding; protein heterodimerization activity; protein heterodimerization activity; protein homodimerization activity; receptor binding; retinol dehydrogenase activity; retinol dehydrogenase activity;

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