

Recombinant Mouse Bmp2 protein, His/S-tagged

Cat. No. Bmp2-211M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Bmp2 fused with His/S tag was expressed in E. coli.
Species	Mouse
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 [Mus musculus]
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 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Official Symbol	Bmp2
Synonyms	BMP2; bone morphogenetic protein 2; BMP-2; BMP-2A; bone morphogenetic protein 2A; Bmp2a; AI467020;
Gene ID	12156
mRNA Refseq	NM_007553
Protein Refseq	NP_031579
UniProt ID	P21274
Chromosome Location	2 F2; 2 65.21 cM
Pathway	Adipogenesis, organism-specific biosystem; Basal cell carcinoma, organism-specific biosystem; Basal cell carcinoma, conserved biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Hedgehog signaling pathway, organism-specific biosystem; Hedgehog signaling pathway, conserved biosystem;
Function	BMP receptor binding; SMAD binding; cytokine activity; growth factor activity; phosphatase activator activity; protein binding; protein domain specific binding; protein heterodimerization activity; protein homodimerization activity; receptor binding; retinol dehydrogenase activity;

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