

Recombinant Active Mouse BMP4 Protein, His-tagged(C-ter)

Cat. No. Bmp4-14M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Active Mouse BMP4 Protein with His tag (C-ter) was expressed in E. coli.
Species	Mouse
Source	E.coli
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. [provided by RefSeq, Jul 2008]
Form	Powder
Bio-activity	Determined by its ability to induce alkaline phosphatase production by ATDC5 cells. The ED50 for this effect is < 10 ng/mL. The specific activity of recombinant mouse BMP-4 is > 1 x 10⁵ IU/mg.

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AA Sequence	MKKNKNCRRHSLYVDFSDVGWNDWIVAPPGYQAFYCHGDCPFPLADHLNSTNHAI VQTLVNSVNSSIPKACCVPTELSAISMLYLDEYDKVVLKNYQEMVVEGCGCR
Endotoxin	Endotoxin level is less than 0.1 EU/μg of the protein, as determined by the LAL test.
Purity	> 98% (by SDS-PAGE)
Applications	SDS-PAGE
Notes	For laboratory research only, not for drug, diagnostic or other use.
Storage	Lyophilized protein should be stored at -20°C. After reconstitution, aliquot and store at -20°C or -80°C for up to one month. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening.
Storage Buffer	20 mM Sodium carbonate (pH 4.5)
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 μg/mL and incubate the stock solution for at least 20 min at room temperature to make sure the protein is dissolved completely.

GENE INFORMATION

Gene Name	Bmp4 bone morphogenetic protein 4 [<i>Mus musculus</i>]
Official Symbol	Bmp4
Synonyms	BMP4; bone morphogenetic protein 4; BMP-2B; bone morphogenetic protein 2B; Bmp-4; Bmp2b; Bmp2b1; Bmp2b-1;

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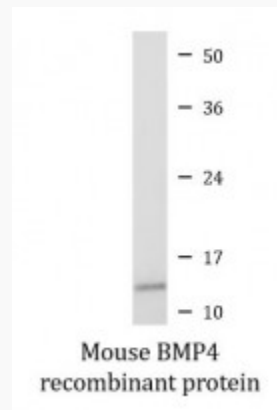
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Gene ID 12159

mRNA Refseq NM_007554

Protein Refseq NP_031580

SDS-PAGE



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