

Active Recombinant Mouse Bmp4 Protein, His-Tagged

Cat. No. Bmp4-01M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Bmp4 Protein, His-tagged was expressed in E. coli cell
Species	Mouse
Source	E.coli
Description	Bone morphogenetic protein 4 is a protein that in humans is encoded by BMP4 gene. BMP4 is found on chromosome 14q22-q23. BMP4 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. BMP4 is highly conserved evolutionarily. BMP4 is found in early embryonic development in the ventral marginal zone and in the eye, heart blood and otic vesicle.
Form	Lyophilized powder
AA Sequence	MKKNKNCRRHSLYVDFSDVGWNDWIVAPPGYQAFYCHGDCPFPLADHLNSTNHAI VQTLVNSVNSSIPKACCVPTELSAISMLYLDEYDK VVLKNYQEMVVEGCGCR with polyhistidine tag at the C-terminus
Endotoxin	<0.1 EU per 1 µg of the protein by the LAL method.
Bio-activity	Measure 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 10 ⁵ IU/mg.

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Purity	>98% as determined by SDS-PAGE. Ni-NTA chromatography
Storage Buffer	The protein was lyophilized from a solution containing 20 mM sodium carbonate, pH 4.5.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Storage	Lyophilized protein should be stored at -20°C. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C.
Notes	Please use within one month after protein reconstitution.

GENE INFORMATION

Gene Name	Bmp4 bone morphogenetic protein 4 [Mus musculus (house mouse)]
Official Symbol	Bmp4
Synonyms	Bmp-4; Bmp2b; Bmp2b1; Bmp2b-1
Gene ID	12159
mRNA Refseq	NM_001316360.1
Protein Refseq	NP_001303289.1
UniProt ID	P21275

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