

Active Recombinant Mouse Bmp4 Protein (Lys303-Arg408), C-His tagged, Animal-free, Carrier-free

Cat. No. Bmp4-15M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Bmp4 Protein (Lys303-Arg408) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Mouse
Source	E.coli
ProteinLength	Lys303-Arg408
Description	Bone Morphogenetic Protein-4 (BMP-4) predicts a molecular mass of 13 kDa, is a vital regulatory molecule that functions throughout human development in mesoderm induction, tooth development, limb formation, bone induction, and fracture repair and is overexpressed in patients who have fibrodysplasia ossificans progressiva. BMP-4 is a critical signaling molecule required for the early differentiation of the embryo and establishing of a dorsal-ventral axis. BMP-4 is secreted from the dorsal portion of the notochord, and it acts in concert with sonic hedgehog to establish a dorsal-ventral axis for the differentiation of later structures.
Form	Lyophilized
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 × 10 ⁵ IU/mg.

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Molecular Mass	The protein has a calculated MW of 12.88 kDa. The protein migrates as 11-17 kDa under reducing condition (SDS-PAGE analysis).
Endotoxin	< 0.1 EU/μg of the protein by the LAL method.
Purity	>98% as determined by SDS-PAGE analysis.
Storage	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered 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 200 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

GENE INFORMATION

Gene Name	Bmp4 bone morphogenetic protein 4 [Mus musculus (house mouse)]
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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Gene ID 12159

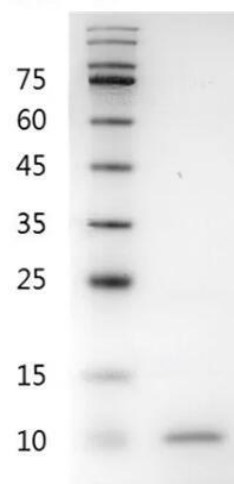
mRNA Refseq NM_007554

Protein Refseq NP_031580

UniProt ID P21275

**SDS-PAGE analysis
of recombinant
mouse BMP-4.**

kDa M



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