

Recombinant Mouse Bmp4 Protein, His-tagged

Cat. No. Bmp4-324M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Bmp4 Protein (Ser22-Arg408) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Ser22-Arg408
Description	This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer. This protein regulates heart development and adipogenesis. Homozygous knockout mice die in utero, while a conditional knockout mouse exhibits defects in heart development. Transgenic mice overexpressing this gene in a neuron-specific manner exhibit a phenotype resembling the rare hereditary connective tissue disease, fibrodysplasia ossificans progressiva.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 48.0 kDa Accurate Molecular Mass: 48 kDa
Purity	> 97%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

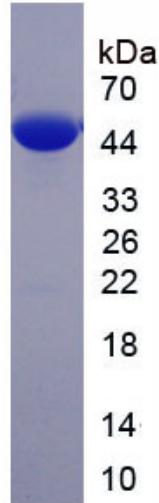
GENE INFORMATION

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
Gene ID	12159
mRNA Refseq	NM_007554
Protein Refseq	NP_031580
UniProt ID	P21275

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