Recombinant Mouse Bmp2 protein, His-tagged

Cat. No. Bmp2-562M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Bmp2 (P21274) aa. (Gln281~Arg394) fused with N-terminal His tag was produced in E. coli cells.
Species	Mouse
Source	E.coli
ProteinLength	Gln281~Arg394
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, which plays a role in bone and cartilage development. While a homozygous knockout mouse for this gene exhibits embryonic lethality, conditional knockout mice have defects in bone, cartilage and heart development.
Form	Freeze-dried powder
Molecular Mass	15kDa as determined by SDS-PAGE reducing conditions
Endotoxin	<1.0EU per 1μg (determined by the LAL method)
Purity	> 97%

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Characteristic	The isoelectric point is 8.2.
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°C 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°C for one month. Aliquot and store at -80°C for 12 months.
Concentration	200μg/mL
Storage buffer	10mM PBS, pH7.4, containing 1mM DTT, 5% trehalose, 0.01% sarcosyl and Proclin300.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex

GENE INFORMATION

Gene Name	Bmp2 bone morphogenetic protein 2 [Mus musculus (house mouse)]
Official Symbol	Bmp2
Synonyms	Bmp2; bone morphogenetic protein 2; Bmp2a; AI467020; bone morphogenetic protein 2A
Gene ID	12156

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mRNA Refseq	NM_007553.3
Protein Refseq	NP_031579.2
UniProt ID	P21274

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