

Recombinant Mouse Bmp7 protein, His-tagged

Cat. No. Bmp7-568M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Bmp7 (P23359) aa. (Ser292~His430) fused with His tag was produced in E. coli cells.
Species	Mouse
Source	E.coli
ProteinLength	Ser292~His430
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. Mutation of this gene results in skeletal, kidney, and other developmental defects.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 16.9kDa; Accurate Molecular Mass: 16kDa as determined by SDS-PAGE reducing conditions.
Purity	>98%
Characteristic	Isoelectric point is 8.5.

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Applications	Cell culture; Activity Assays.
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.
Storage buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex

GENE INFORMATION

Gene Name	Bmp7 bone morphogenetic protein 7 [Mus musculus (house mouse)]
Official Symbol	Bmp7
Synonyms	Bmp7; bone morphogenetic protein 7; OP1; bone morphogenetic protein 7; osteogenic protein 1
Gene ID	12162
mRNA Refseq	NM_007557.3
Protein Refseq	NP_031583.2

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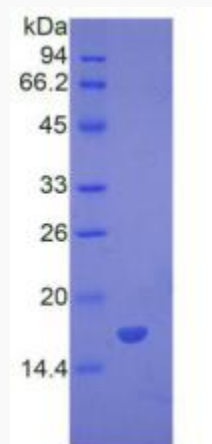
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UniProt ID

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SDS-PAGE

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