

## Active Recombinant Mouse Bmp6

**Cat. No.** Bmp6-28M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Bmp6(Ser372-His510) was expressed in CHO Cells.
<b>Species</b>	Mouse
<b>Source</b>	CHO
<b>ProteinLength</b>	372-510 a.a.
<b>Description</b>	Bone morphogenetic protein 6 is a protein that in humans is encoded by the BMP6 gene. The protein encoded by this gene is a member of the TGF $\beta$ superfamily. Bone morphogenetic proteins are known for their ability to induce the growth of bone and cartilage. BMP6 is able to induce all osteogenic markers in mesenchymal stem cells.
<b>Predicted N Terminal</b>	Ser372
<b>Form</b>	Disulfide-linked homodimer. Lyophilized from a 0.2 $\mu$ m filtered solution in HCl.
<b>Bio-activity</b>	Measured by its ability to induce alkaline phosphatase production by ATDC5 mouse chondrogenic cells. The ED50 for this effect is typically 0.1 - 0.4 $\mu$ g/mL.
<b>Molecular Mass</b>	Predicted Molecular Mass: 15.5 kDa SDS-PAGE: 18 kDa, reducing conditions
<b>Purity</b>	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
<b>Storage</b>	Avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 $^{\circ}$ C as

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supplied.1 month, 2 to 8 °C under sterile conditions after reconstitution.3 months, -20 to -70 °C under sterile conditions after reconstitution.

**Reconstitution** Reconstitute at 200 µg/mL in 4mM HCl.

## GENE INFORMATION

**Gene Name** [Bmp6 bone morphogenetic protein 6 \[ Mus musculus \(house mouse\) \]](#)

**Official Symbol** Bmp6

**Synonyms** Bmp6; Vgr1; D13Wsu115e; bone morphogenetic protein 6; BMP-6; VG-1-related protein

**Gene ID** [12161](#)

**mRNA Refseq** [NM\\_007556](#)

**Protein Refseq** [NP\\_031582](#)

**UniProt ID** [P20722](#)

**Chromosome Location** 13 A3.3; 13 18.15 cM

**Pathway** Endochondral Ossification; Hippo signaling pathway; Ovarian steroidogenesis

**Function** BMP receptor binding; cytokine activity; growth factor activity

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