

Active Recombinant Mouse BMP-binding Endothelial Regulator, His-tagged

Cat. No. Bmper-5602M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Bmperprotein was expressed in Murine myeloma cell line Val34-Arg685 with anN-terminal 9-His tag. Ala39-Asp369 & Pro370-Arg685.
Species	Mouse
Source	Mammalian Cells
ProteinLength	34-685;39-369;370-685 a.a.
Description	Bmper, also known as bone morphogenetic protein binding endothelial cell precursor derived regulator, is a secreted chordin like protein that modulates the BMP signaling pathway. Mouse Bmper is synthesized as a 685 amino acid (aa) residue precursor protein with a putative 39 aa signal peptide, five tandem chordin like cysteine rich (CR) domains, a partial von Willebrand factor type D domain (vWD), and a carboxyl trypsin inhibitor like cysteine rich domain (TIL). Secreted Bmper is reported to be proteolytically cleaved to generate two fragments that are disulfide linked.
Form	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.
N-terminal Sequence	His, Ala39 & Pro370
Molecular Weight	36-39kDa & 50-55 kDa
Activity	Measured by its ability to inhibit rhBMP-4-induced alkaline phosphatase production

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byATDC5 mouse chondrogenic cells. Binnerts, M.E. et al. (2004) Biochem.Biophys. Res. Commun. 315:272. The ED50 for this effect is typically 0.5-2 µg/mL in the presence of 75 ng/mL of rhBMP-4.

Endotoxin Level <1.0 EU per 1 µg of the protein by the LAL method.

SDS-PAGE 36-39kDa, reducing conditions

Purity >95%, by SDS-PAGE under reducing conditions and visualized by silver stain.

Reconstitution Reconstitute at 250 µg/mL in sterile PBS that containing at least 0.1% human or bovine serum albumin.

Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name [Bmper BMP-binding endothelial regulator \[Mus musculus \]](#)

Official Symbol [Bmper](#)

Synonyms Bmper; BMP-binding endothelial regulator; Cv2; CV-2; Crim3; 3110056H04Rik; BMP-binding endothelial regulator protein; mCV2; crossveinless-2; crossveinless 2 homolog; protein crossveinless-2; bone morphogenetic protein-binding endothelial cell precursor-derived regulator

Gene ID [73230](#)

mRNA Refseq [NM_028472](#)

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Protein Refseq	NP_082748
UniProt ID	Q8CJ69
Chromosome Location	9; 9 A4
Function	protein binding

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