

## Recombinant Swine Bone Morphogenetic Protein 2 (BMP2)

**Cat. No.:** AP9C50

**Product Type:** Animal Proteins

**Size:** 10 µg; 50 µg; 200 µg; 1 mg; 5 mg

### Product Overview

BioVenic's Recombinant Swine Bone Morphogenetic Protein 2 (BMP2) is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is 14.0 kDa. The purity is >95% (SDS-PAGE).

### Specifications

Type	Recombinant Protein
Species	Swine
Expression System	<i>E.coli</i>
Purity	>95% (SDS-PAGE)
Endotoxin	< 1 EU/µg
Predicted Molecular Weight	14.0 kDa
Molecular Weight	15.0 kDa
Physical State	Lyophilized
Formulation	The buffer before lyophilization is PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.

### Target Information

Swine bone morphogenetic protein 2 (BMP2) is a member of the transforming growth factor-beta (TGF-β) superfamily, known for its pleiotropic effects. BMP2 is crucial in embryonic development, particularly in the regulation of growth, differentiation, and apoptosis in various tissues such as cartilage, bone, blood vessels, liver, lung, kidney, heart, and neurons. It influences mesenchymal cell activities, including adipogenesis, myogenesis, chondrogenesis, and osteogenesis, playing a critical role in skeletal repair and regeneration processes.

Protein	Swine Bone Morphogenetic Protein 2 (BMP2)
Protein Synonym	BMP2A; BMP-2A; Hemochromatosis Modifier
Gene ID	<a href="#">100157103</a>
UniProt ID	<a href="#">A0A286ZZE2</a>

## Shipping and Storage

This product is shipped with dry ice. It is recommended to aliquot as needed and store at -80°C upon receipt. Reconstituted protein solution can be stored at 4°C for 1 week, at < -80°C for 12 months. Avoid repeated freezing and thawing.

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## User Note

Always centrifuge tubes before opening. Avoid mixing by vortexing or pipetting. Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Aliquot the reconstituted solution to minimise freeze-thaw cycles.

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The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.