

Recombinant Rabbit Bone Morphogenetic Protein 2 (BMP2), N-His

Cat. No.: AP4C398

Product Type: Animal Proteins

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

Product Overview

BioVenic's Recombinant Rabbit Bone Morphogenetic Protein 2 (BMP2), N-His is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is 13.5 kDa. The purity is > 95%.

Specifications

Type	Recombinant Protein
Species	Oryctolagus cuniculus (Rabbit)
Expression System	<i>E.coli</i>
Purity	> 95%
Endotoxin	< 1.0 EU/µg
Predicted Molecular Weight	13.5 kDa
Physical State	Lyophilized
Formulation	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.

Target Information

Rabbit Bone Morphogenetic Protein 2 (BMP2) is a key regulator of bone formation and repair. It belongs to the TGF-β superfamily and is highly conserved across species. BMP2 induces the differentiation of mesenchymal stem cells into osteoblasts and chondrocytes, promoting bone and cartilage formation. In rabbits, BMP2 has been extensively studied for its role in fracture healing and bone defect repair. It is used to accelerate bone regeneration in various models, including spinal fusion and tendon-bone repair. BMP2 also interacts with other growth factors like TGF-β1 and VEGF, enhancing its effects on bone healing. However, its clinical application requires careful consideration due to potential complications like ectopic bone formation. BMP2's ability to induce bone formation makes it a valuable tool in orthopedic research and therapy.

Protein	Rabbit Bone Morphogenetic Protein 2 (BMP2)
Protein Synonym	BMP2
Gene ID	100009349
EC No.	Q46564

Shipping and Storage

This product is shipped with ice packs. Lyophilized protein can be stored at -80°C for 1 year. After reconstitution, the protein solution can be stored at 2-8°C for 2-7 days.

User Note

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

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.