

Recombinant Rabbit Bone Morphogenetic Protein 7 (BMP7), N-His

Cat. No.: AP4C502

Product Type: Animal Proteins

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

Product Overview

BioVenic's Recombinant Rabbit Bone Morphogenetic Protein 7 (BMP7), N-His is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is 35.0 kDa. The purity is > 97%.

Specifications

Type	Recombinant Protein
Species	Oryctolagus cuniculus (Rabbit)
Expression System	<i>E.coli</i>
Purity	> 97%
Endotoxin	< 1.0 EU/µg
Predicted Molecular Weight	35.0 kDa
Physical State	Lyophilized
Formulation	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose.

Target Information

Rabbit Bone Morphogenetic Protein 7 (BMP7) is a potent growth factor that plays a crucial role in bone formation and tissue repair. It is a member of the TGF-β superfamily and is particularly effective in promoting osteogenesis and chondrogenesis. In rabbits, BMP7 has been shown to accelerate the differentiation of mesenchymal stem cells (MSCs) into cartilage and bone tissue. This protein is also involved in various biological processes, including embryogenesis, neurogenesis, and skeletal morphogenesis. BMP7 acts by binding to specific receptors on the cell surface, initiating signaling pathways that regulate gene expression and promote tissue regeneration. Its therapeutic potential has been explored in models of bone defects and cartilage repair, where it has demonstrated significant benefits in enhancing healing and reducing fibrosis. Overall, BMP7 is a vital factor for maintaining skeletal health and supporting tissue repair mechanisms in rabbits.

Protein	Rabbit Bone Morphogenetic Protein 7 (BMP7)
Protein Synonym	BMP7
Gene ID	100008826

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.