

Recombinant Sheep Bone Morphogenetic Protein 7 (BMP7)

Cat. No.: AP9C715

Product Type: Animal Proteins

Size: 20 µg; 100 µg; 1 mg

Product Overview

BioVenic's Recombinant Sheep Bone Morphogenetic Protein 7 (BMP7) is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is 45.5 kDa. The purity is >85% (SDS-PAGE).

Specifications

Type	Recombinant Protein
Species	Sheep
Expression System	<i>E.coli</i>
Purity	>85% (SDS-PAGE)
Predicted Molecular Weight	45.5 kDa
Physical State	Lyophilized
Formulation	The buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose.

Target Information

Sheep bone morphogenetic protein 7 (BMP-7), also known as Osteogenic Protein-1 (OP-1), is a member of the transforming growth factor-beta (TGF-β) superfamily. BMP-7 is a key regulatory protein that plays a critical role in bone formation, repair, and maintenance in sheep. It promotes the differentiation of mesenchymal stem cells into osteoblasts and chondrocytes, which are essential for bone development and healing. BMP-7 also has anti-inflammatory properties and is involved in the regulation of immune responses, making it a significant factor in the overall health and well-being of sheep species.

Protein	Sheep Bone Morphogenetic Protein 7 (BMP7)
Gene ID	443175
UniProt ID	W5Q9G9

Shipping and Storage

This product is shipped with dry ice. It is recommended to aliquote 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.

User Note

Always centrifuge tubes before opening. Avoid mixing by vortexing or pipetting. Reconstitute in sterile distilled water to a concentration of 0.1-1.0 mg/mL. Aliquote the reconstituted solution to minimise 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.