

Recombinant Human BMP-3 Protein

Catalog No.: RP02511 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	651	P12645

Tags

C-His

Synonyms

BMP3;BMP-3A

Product Information

Source	Purification
<i>E. coli</i>	> 95% by SDS-PAGE.

Endotoxin

<0.1EU/μg

Formulation

Lyophilized from a 0.22 μm filtered solution of 20 mM sodium citrate, 0.2 M NaCl, pH 3.5.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Bone morphogenetic protein 3, also known as osteogenic, is a protein in humans that is encoded by the BMP3 gene. The protein encoded by this gene is a member of the transforming growth factor-beta superfamily. It, like other bone morphogenetic proteins (BMP's), is known for its ability to induce bone and cartilage development. It is a disulfide-linked homodimer. It negatively regulates bone density. BMP3 is an antagonist to other BMP's in the differentiation of osteogenic progenitors. It is highly expressed in fractured tissues.

Basic Information

Description

Recombinant Human BMP-3 Protein is produced by Escherichia coli expression system. The target protein is expressed with sequence of Human BMP-3 fused with polyhistidine tag at the C-terminus

Bio-Activity

Measured by its ability to inhibit alkaline phosphatase production by ATDC5 cells. The ED₅₀ for this effect is <9.5 ng/mL.

Storage

Store the lyophilized protein at -20°C to -80°C for long term. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

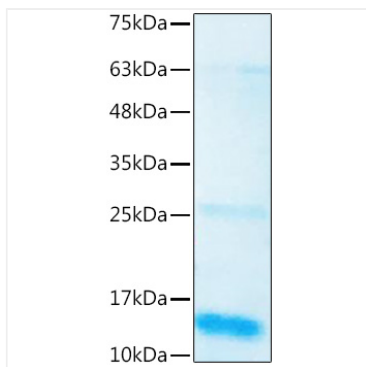
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Validation Data



Recombinant Human BMP-3 Protein was determined by SDS-PAGE with Coomassie Blue, showing bands at 15 kDa.