

RP02511

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# 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

<I>E. coli</I>

### Purification

> 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 ED<sub>50</sub> for this effect is <9.5 ng/mL.

### Storage

Store the lyophilized protein at -20°C to -80°C for long term.<br/>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.

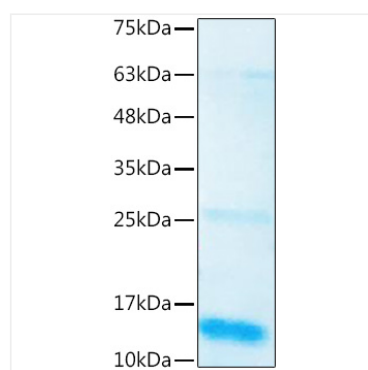
## Contact



[www.abclonal.com](http://www.abclonal.com)

## Validation Data

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