

# Recombinant human BMP-2 (monomer) protein

Catalog Number: BMP0905

## PRODUCT INFORMATION

### Expression system

E.coli

### Domain

283-396aa

### UniProt No.

P12643

### NCBI Accession No.

NP\_001191.1

### Alternative Names

Bone morphogenetic protein 2, BMP-2A

## PRODUCT SPECIFICATION

### Molecular Weight

13 kDa (115aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 10mM Sodium Citrate buffer (pH 3.5) containing 10% glycerol

### Purity

> 90% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

Non-Tagged

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### Description

BMP-2 (Bone morphogenetic protein 2) is multi-functional growth factors that belong to the transforming growth factor beta (TGF beta) superfamily. It plays an important role in embryonic dorsal-ventral patterning, organogenesis, limb bud formation, and bone formation and regeneration. BMP-2 also promotes the maintenance and repair of colonic epithelium, suppresses neuronal dopamine synthesis and release, induces

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apoptosis in medulloblastoma cells, and is required for cardiac contractility. Recombinant human BMP-2 protein was expressed in *E. coli* and purified by using conventional chromatography techniques, after refolding of the isolated inclusion body in renaturation buffer.

## Amino acid Sequence

MQAKHKQRKR LKSSCKRHPL YVDFSDVGWN DWIVAPPGYH AFYCHGECPF PLADHLNSTN HAIVQTLVNS VNSKIPKACC  
VPTLSAISM LYLDENEKVV LKNYQDMVVE GCGCR

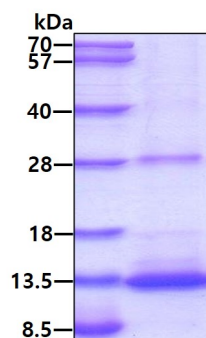
## General References

Chen D., et al. (2004). Growth factors. 22(4):233-41

Schliephake H., et al. (2005). Clin Oral Implants Res. 17(6):666-72

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.