

# Recombinant human BMP-7 (monomer) protein

Catalog Number: BMP0906

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

293-431aa

### UniProt No.

P18075

### NCBI Accession No.

NP\_001710.1

### Alternative Names

BMP 7, Bone morphogenetic protein 7, Eptotermin alfa, OP-1, Osteogenic protein 1

## PRODUCT SPECIFICATION

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### Molecular Weight

16.8 kDa (148aa) 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

> 95% by SDS-PAGE

### Endotoxin level

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

### Tag

His-Tag

### 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

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### Description

Bone morphogenetic protein-7 (BMP-7/OP-1) is a member of the transforming growth factor-beta (TGF-beta) superfamily. Like other members of the BMPs family, it plays a role in calcium regulation and bone homeostasis. BMPs have been also shown to regulate the growth, differentiation, chemotaxis and apoptosis of various cell types, including mesenchymal cells, epithelial cells, hematopoietic cells and neuronal cells. BMP7 also has the

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potential for treatment of chronic kidney disease. Recombinant human BMP-7 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

MSTGSKQRSQ NRSKTPKNQE ALRMANVAEN SSSDQRQACK KHELYVSFRD LGWQDWIAP EGYAAYYCEG ECAFPLNSYM  
NATNHAIVQT LVHFINPETV PKPCCAPTQL NAISVLYFDD SSNVILKKYR NMVVRACGCH <LEHHHHHH>

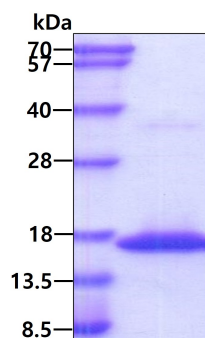
### General References

Gonzalez EA., et al. (2002) *Kidney Int.* 61(4): 1322-31

Tseng YH., et al. (2008) *Nature.* 454(7207): 1000-4

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.