

# Recombinant human BMP-8b protein

Catalog Number: ATGP2743

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

264-402aa

**UniProt No.**

P34820

**NCBI Accession No.**

NP\_001711

**Alternative Names**

Bone morphogenetic protein 8B, BMP8, OP2, Osteogenic protein 2

## PRODUCT SPECIFICATION

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**Molecular Weight**

18.1 kDa (162aa)

**Concentration**

1mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

**Purity**

> 90% by SDS-PAGE

**Tag**

His-Tag

**Application**

SDS-PAGE, Denatured

**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**

The bone morphogenetic proteins (BMPs) are a family of secreted signaling molecules that can induce ectopic bone growth. Many BMPs are part of the transforming growth factor-beta (TGFB) superfamily. BMPs were originally identified by an ability of demineralized bone extract to induce endochondral osteogenesis in vivo in an extraskeletal site. Based on its expression early in embryogenesis, the BMP encoded by this gene has a proposed role in early development. In addition, the fact that this BMP is closely related to BMP5 and BMP7 has led to speculation of possible bone inductive activity. Recombinant human BMP8B protein, fused to His-tag at N-

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terminus, was expressed in E. coli.

### Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGS AVRPLRR RQPKKSNELP QANRLPGIFD DVHGSHGRQV CRRHELYVSF  
QDLGWLDWVI APQGY SAYYC EGECSFPLDS CMNATNHAIL QSLVHLMMPD AVPKACCAPT KLSATSVLYY DSSNNVILRK  
HRNMVVKACG CH

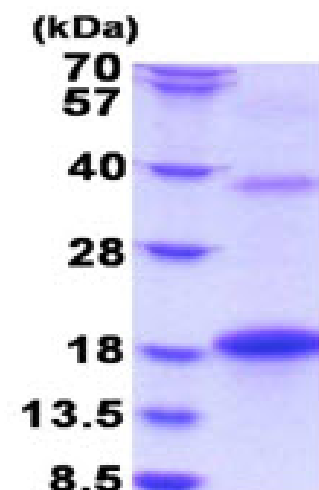
### General References

Oezkaynak E., et al. (1992) J. Biol. Chem. 267:25220-25227

Gregory S.G., et al. (2006) Nature. 441:315-321

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)