

# Recombinant mouse BMP-14/GDF-5 protein

Catalog Number: ATGP2894

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

376-495aa

### UniProt No.

P43027

### NCBI Accession No.

NP\_032135

### Alternative Names

Growth differentiation factor 5, CDMP-1, Cartilage-derived morphogenetic protein 1, BRP, BP, Bone morphogenetic protein 14, BMP-14

## PRODUCT SPECIFICATION

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### Molecular Weight

16 kDa (143aa)

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 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

Growth/differentiation factor 5 precursor, also known as GDF5, is a member of the TGF superfamily. GDF5 has been shown to induce activation of plasminogen activator, thereby inducing angiogenesis. It is predominantly expressed in long bones during fetal embryonic development and is involved in bone formation. GDF5 mutations have been identified in mice with the mutation brachypodism (bp), a mutation which affects the length and number of bones in limbs. Recombinant mouse GDF5 protein, fused to His-tag at N-terminus, was expressed in

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### Amino acid Sequence

MGSSHHHHHH SGLVPRGSH MGSAPLANRQ GKRPSKNLKA RCSRKALHVN FKDMGWDDWI IAPLEYEAFH CEGLCFPLR  
SHLEPTNHAV IQTLMNSMDP ESTPPTCCVP TRLSPISILF IDSANNVYK QYEDMVVESC GCR

### General References

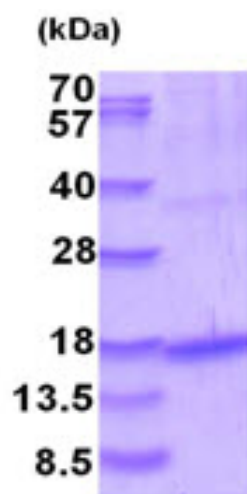
Katayama R., et al. (2004) Rheumatology. 43: 980-985.

Kwong F N., et al. (2008) J Orthop Res. 27: 752-757.

## DATA

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### SDS-PAGE



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

15% SDS-PAGE (3ug)