

Recombinant mouse BMP-14/GDF-5 protein

Catalog Number: ATGP2894

PRODUCT INFORMATION

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

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

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 SSGLVPRGSH MGSAPLANRQ GKRPSKNLKA RCSRKALHVN FKDMGWDDWI IAPLEYEAFH CEGLCFPLR
SHLEPTNHAV IQTLMNSMDP ESTPPTCCVP TRLSPISILF IDSANNVVK QYEDMVVESC GCR

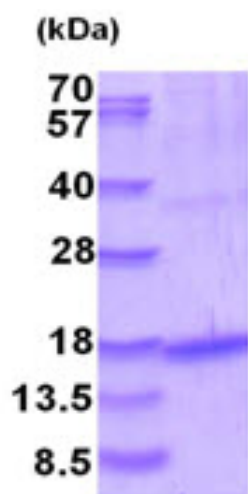
General References

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

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

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)