

Recombinant human BMP-3b/GDF-10 protein

Catalog Number: ATGP0336

PRODUCT INFORMATION

Expression system

E.coli

Domain

369-478aa

UniProt No.

P55107

NCBI Accession No.

NP_004953.1

Alternative Names

Growth differentiation factor 10, GDF-10, Bone morphogenetic protein 3b [Precursor], Bone inducing protein, BMP-3b, BIP

PRODUCT SPECIFICATION

Molecular Weight

12.5 kDa (111aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 10mM Sodium Citrate buffer (pH 3.5) containing 0.1M NaCl, 1mM DTT, 40% glycerol

Purity

> 95% by SDS-PAGE

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

GDF10 (Growth differentiation factor 10) is a member of the bone morphogenetic protein (BMP) family and the TGF-beta superfamily. It is expressed in femur, brain, lung, skeletal, muscle, pancreas and testis, and it plays a role in head formation and may have multiple roles in skeletal morphogenesis. This group of proteins is characterized by a polybasic proteolytic processing site which is cleaved to produce a mature protein containing seven conserved cysteine residues. The members of this family are regulators of cell growth and differentiation

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in both embryonic and adult tissues. Recombinant GDF10 protein was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

MQWDEPRVCS RRYLKVDFAD IGWNEWIISP KSFDAYYCAG ACEFPMPKIV RPSNHATIQS IVRAVGIIPG IPEPCCVPDK
MNSLGVLFLD ENRNVVLKVY PNMSVDTCAC R

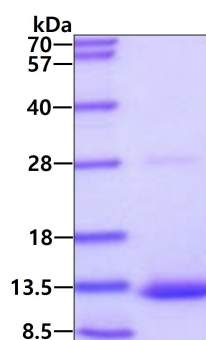
General References

Cunningham NS., et al. (1995) Growth Factors. 12(2):99-109.

Ducy P., et al. (2000) Kidney Int. 57(6):2207-14.

DATA

SDS-PAGE



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