

Recombinant human BMP-2 protein

Catalog Number: ATGP3787

PRODUCT INFORMATION

Expression system

E.coli

Domain

283-396aa

UniProt No.

P12643

NCBI Accession No.

NP_001191

Alternative Names

Bone morphogenetic protein 2, BMP-2A

PRODUCT SPECIFICATION

Molecular Weight

13.0 kDa (115aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 10mM Sodium acetate (pH 3.5)

Purity

> 90% by SDS-PAGE

Endotoxin level

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

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

BMP-2 (Bone morphogenetic protein 2) is multi-functional growth factor that belongs to the transforming growth factor beta (TGF beta) superfamily. It plays an important role in embryonic dorsal-ventral patterning, organogenesis, limb bud formation, and bone formation and regeneration. BMP-2 also promotes the maintenance and repair of colonic epithelium, suppresses neuronal dopamine synthesis and release, induces

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apoptosis in medulloblastoma cells, and is required for cardiac contractility. Recombinant human BMP2 was expressed in *E. coli* and purified by conventional chromatography techniques.

Amino acid Sequence

MQAKHKQRKR LKSSCKRHPL YVDFSDVGWN DWIVAPPGYH AFYCHGECPF PLADHLNSTN HAIVQTLVNS VNSKIPKACC
VPTLSAISM LYLDENEKVV LKNYQDMVVE GCGCR

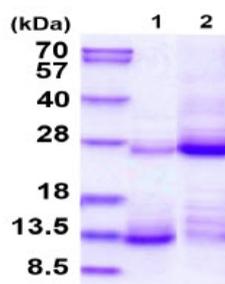
General References

Chen D., et al. (2004). Growth factors. 22(4):233-41

Schliephake H., et al. (2005). Clin Oral Implants Res. 17(6):666-72

DATA

SDS-PAGE



15% SDS-PAGE (3ug)
Lane1 : reducing conditions
Lane2 : non-reducing conditions

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