

Recombinant human BMP-2 (monomer) protein

Catalog Number: BMP0905

PRODUCT INFORMATION

Expression system

E.coli

Domain

283-396aa

UniProt No.

P12643

NCBI Accession No.

NP_001191.1

Alternative Names

Bone morphogenetic protein 2, BMP-2A

PRODUCT SPECIFICATION

Molecular Weight

13 kDa (115aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 10mM Sodium Citrate buffer (pH 3.5) containing 10% glycerol

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 factors that belong 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 BMP-2 protein was expressed in *E. coli* and purified by using conventional chromatography techniques, after refolding of the isolated inclusion body in renaturation buffer.

Amino acid Sequence

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

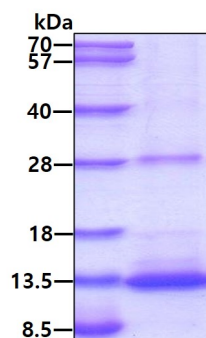
General References

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



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