Product information



BMP- 4, 293-408 aa

Human, Recombinant, *E.coli*

NCBI Accession No.: NP 001193

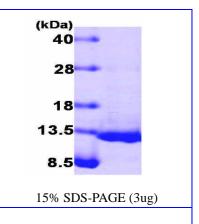
Cat. No. IBBMP0904

Full name: Bone morphogenetic protein 4

Synonyms: BMP-2B, DVR4

Description: Bone morphogenetic protein 4 (BMP-4) is a member of the bone morphogenetic protein family which belongs to the TGF- β superfamily. This protein is a vital regulatory molecule that functions throughout bone and cartilage development, specifically tooth development, limb formation, bone induction, and fracture repair. In human embryonic development, BMP- 4 is required for the early differentiation of the embryo and establishing of a dorsal-ventral axis. And it is overexpressed in patients with fibrodysplasia ossificans progressiva. Recombinant BMP-4 was expressed as insoluble protein aggregate in *E.coli* and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.

Form: Liquid. In 10mM Sodium citrate buffer (pH 3.5), 10% glycerol
Molecular Weight: 13.2 kDa (117 aa), confirmed by MALDI-TOF
Purity: > 95% by SDS - PAGE
Concentration: 0.5 mg/ml (determined by Bradford assay)
Endotoxin Level: < 1.0 EU per 1 μg of protein (determined by LAL method)



Sequences of amino acids:

MSPKHHSQRA RKKNKNCRRH SLYVDFSDVG WNDWIVAPPG YQAFYCHGDC PFPLADHLNS TNHAIVQTLV NSVNSSIPKA CCVPTELSAI SMLYLDEYDK VVLKNYQEMV VEGCGCR

General references:

Moon BS., et al. (2009) Exp Mol Med. 41(2):116-25.

Li BC., et al. (2009) J Trauma. 66(2):450-6

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.





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