

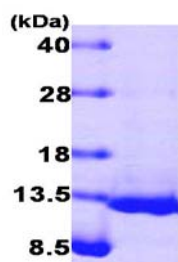
Product: BMP-4 (Bone Morphogenetic 4, 293-448aa), human
Catalog #: 11-BMP-4H
Amount: 10 µg

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.

Synonyms: BMP-2B, DVR4

AA Sequence:

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



15%SDS-PAGE (3ug)

SOURCE: Recombinant, *E. coli* expression system
MOLECULAR WEIGHT: 13.2 kDa (117 aa)
PURITY: > 95% by SDS PAGE
FORM: Purified, in 10 mM Sodium citrate (pH 3.5), 10% Glycerol
ENDOTOXIN: < 1.0 EU per 1µg of protein (determined by LAL method)
CONCENTRATION: 0.5 mg/ml
STORAGE: -20°C (aliquot), Avoid repeated freeze and thaw cycles

REFERENCE:

Moon BS., et al. (2009) *Exp Mol Med.* **41**(2):116-125
 Li BC., et al. (2009) *J Trauma.* **66**(2):450-456

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