Recombinant Human Bone Morphogenetic Protein 4

Cat. No. BMP4-20H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human BMP-4 expressed in*HeLa cells*was a 31-36kDa homodimeric glycoprotein.
Species	Human
Source	HeLa
Description	Bone morphogenetic proteins (BMPs) constitute a subfamily within the TGF-β superfamily of structurally related signaling proteins. Members of this superfamily are widely distributed throughout the body and are involved in diverse physiological processes during both pre- and postnatal life. Like BMP-7, BMP-4 is involved in the development and maintenance of bone and cartilage. Reduced expression of BMP-4 is associated with a number of bone diseases, including the heritable disorder fibrodysplasia ossificans progressiva.
Purity	>97% by SDS-PAGE and HPLC analysis.
Endotoxin Level	<0.1ng/μg of BMP-4.
Stabilizer	None.
Formulation	Lyophilized.
Biologically Activity	Determined by its ability to induce alkaline phosphatase production by ATDC-5 cells.

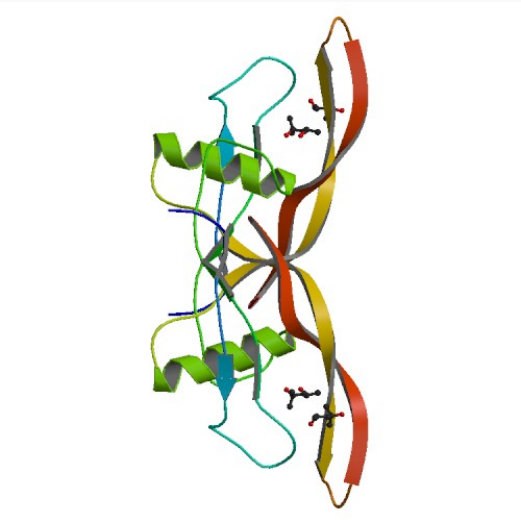
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Stability	The lyophilized protein is stable for at least 2 years from date of receipt at -20oC. Reconstituted BMP-4 is stable for at least 3 months when stored in working aliquots with a carrier protein at -20oC. Avoid repeated freeze-thaw cycles!

GENE INFORMATION

Gene Name	BMP4 bone morphogenetic protein 4 [Homo sapiens]
Synonyms	ZYME; BMP2B; BMP2B1; DVR4; MCOPS6; BMP-2B; BMP-4; Bone morphogenetic protein 4 precursor; bone morphogenetic protein 2B; bone morphogenetic protein 4; BMP4
Gene ID	652
mRNA Refseq	NM_001202
Protein Refseq	NP_001193
MIM	112262
UniProt ID	P12644
Chromosome Location	14q22-q23
Function	cytokine activity; growth factor activity; heparin binding; protein binding; signal transducer activity

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