

Recombinant Human Bone Morphogenetic Protein 4

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

SPECIFICATION

Product Overview	Recombinant human BMP-4 expressed in <i>HeLa</i> 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/ μ g of BMP-4.
Stabilizer	None.
Formulation	Lyophilized.
Biologically Activity	Determined by its ability to induce alkaline phosphatase production by ATDC-5 cells.

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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

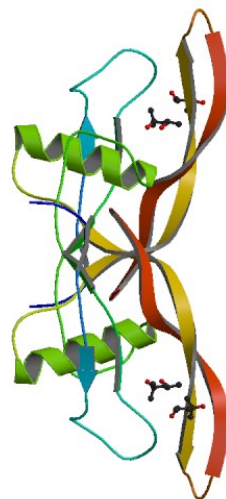
cytokine activity; growth factor activity; heparin binding; protein binding; signal transducer activity

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