



Recombinant Human BMP-4

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	100-326
Size:	5 µg
Lot. No.:	According to product label

Sequence

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HHSQRARKKN KNCRRHSLYV DFSDVGWNDW IVAPPGYQAF  
YCHGDCCPFPL ADHLNSTNHA IVQTLVNSVN SSIPKACCVF  
TELSAISMLY LDEYDKVVLK NYQEMVVEGC GCR
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Database References

Protein RefSeq:	NP_001193
Uniprot ID:	P12644
mRNA RefSeq:	NM_001202

Scientific Background

Gene-ID (NCBI):	652
Synonyms:	BMP4; ZYME; BMP2B; OFC11; BMP2B1; MCOPS6

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. Recombinant human BMP-4, expressed in HeLa cells, is a 31-36 kDa homodimeric glycoprotein.

Product Specifications

Expressed in	HeLa cells
Purity	>97% by SDS-PAGE & HPLC analysis
Structural Information	homodimer
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	113
MW:	31.0-36.0 kDa

Biological Activity: Determined by its ability to induce alkaline phosphatase production by ATDC-5 cells.



AVOID REPEATED FREEZE AND THAW CYCLES!