

Active Recombinant Human BMP4

Cat. No. BMP4-06H **Lot. No.** (See product label)

SPECIFICATION

Product Overview This E.coli derived BMP-4 is a fully active homodimeric protein consisting of two 106 amino acid subunits which correspond to amino acids 303-408 of the full length BMP-4 precursor. Manufactured using all non-animal reagents.

Species Human

Source E.coli

ProteinLength 303-408 a.a.

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.

Bio-activity Determined by its ability to induce alkaline phosphatase production by ATDC-5 cells. The expected ED50 for this effect is 5-10 ng/ml.

AA Sequence KKNKNCRRHS LYVDFSDVGW NDWIVAPPGY QAFYCHGDGP FPLADHLNST
NHAIVQTLVN SVNSSIPKAC CVPTELSAIS MLYLDEYDKV VLKQYQEMVV
EGCGCR

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Purity	Greater than 98% by SDS-PAGE gel and HPLC analyses.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Full Length	Full L.

GENE INFORMATION

Gene Name	BMP4 bone morphogenetic protein 4 [Homo sapiens]
Official Symbol	BMP4
Synonyms	BMP4; bone morphogenetic protein 4; BMP2B; BMP-4; BMP-2B; bone morphogenetic protein 2B; ZYME; OFC11; BMP2B1; MCOPS6;
Gene ID	652
mRNA Refseq	NM_001202
Protein Refseq	NP_001193
MIM	112262
UniProt ID	P12644
Chromosome Location	14q22-q23
Pathway	Adipogenesis, organism-specific biosystem; Basal cell carcinoma, organism-specific biosystem; Basal cell carcinoma, conserved biosystem; Glypican 3 network, organism-specific biosystem; Heart Development, organism-specific biosystem; Hedgehog signaling pathway, organism-specific biosystem; Hedgehog signaling

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pathway, conserved biosystem;

Function

BMP receptor binding; chemoattractant activity; cytokine activity; growth factor activity; protein binding;

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