

32-20042: Animal-Free Recombinant Human BMP-4(Discontinued)

Reactivity : Human , mouse, rat

Alternative Name : Bone Morphogenetic Protein-4, BMP-2B, DVR4

Description

Source: **E.coli** Bone morphogenetic proteins (BMPs) constitute a subfamily within the TGF-Beta 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. PeptoTech's 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. The calculated molecular weight of Recombinant Human BMP-4 (E.coli-derived) is 23.9 kDa.

Product Info

Amount : 2 µg / 10 µg

Purification : Purity: >= 98% by SDS-PAGE gel and HPLC analyses.

Content : This recombinant protein is supplied in lyophilized form.

Amino Acid : KKNKNCRRHS LYVDFSDVGW NDWIVAPPGY QAFYCHGDCP FPLADHLNST NHAIVQTLVN SVNSSIPKAC
CVPTELSAIS MLYLDEYDKV VLKNYQEMVV EGCGCR

Application Note

Determined by its ability to induce alkaline phosphatase production by ATDC-5 cells. The expected ED_{50} for this effect is 5-10 ng/ml.