

32-20045: Animal-Free Recombinant Human BMP-13/CDMP-2(Discontinued)

Alternative Name : Bone Morphogenetic Protein-13, GDF-6, Cartilage-Derived Morphogenetic Protein-2 (CDMP-2)

Description

Source: *E.coli* BMP-13 is expressed in hypertrophic chondrocytes during embryonic development of long bones. Continued postnatal expression of BMP-13 in articular cartilage suggests that it plays a regulatory role in the growth and maintenance of articular cartilage. Adenovirus-mediated BMP-13 gene transfer to rabbit bone marrow stem cells have been reported to augment periosteal repair of osteochondral defects. The functional form of BMP-13/CDMP-2 is a disulfide-linked homodimer of two 120 amino-acid polypeptide chains. This 27.5 kDa protein is obtained by proteolytic processing of a biologically inactive precursor protein of 97.7kDa. Recombinant Human BMP-13/CDMP-2 is a 27.0 kDa homodimeric disulfide-linked protein consisting of two 120 amino acid polypeptide chains.

Product Info

Amount : 10 µg / 50 µg

Purification : Purity: $\geq 95\%$ by SDS-PAGE gel and HPLC analyses.

Content : This recombinant protein is supplied in lyophilized form.

Amino Acid : TAFASRHGKR HGKKSRLRCS KKPLHVNFKL LGWDDWIIAP LEYEAYHCEG VCDPFLRSHL EPTNHAIQT
LMNSMDPGST PPSCCVPTKL TPISILYIDA GNNVVYKQYE DMVVESCGCR

Application Note

Determined by its ability to induce alkaline phosphatase production by ATDC-5 cells. The expected ED_{50} for this effect is 2.0-3.0 µg/ml.