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32-20140: Recombinant Murine GDF-5 (BMP-14/CDMP-1)(Discontinued)

Alternative Name: Growth/Differentiation Factor-5, BMP-14, Cartilage-Derived Morphogenetic Protein-1 (CDMP-1)

Description

Source:E.coliGDF-5 is expressed in long bones during embryonic development and postnatally in articular cartilage. Mutations in the GDF-5 gene have been implicated in Hunter-Thompson type dwarfism and in Grebe Syndrome, which is characterized by short stature, extra digits, and short and deformed extremities. The mature and functional form of GDF-5 is a homodimer of two 120 amino acid polypeptide chains (monomers) linked by a single disulfide bond. Each GDF-5 monomer is expressed as the C-terminal part of a precursor polypeptide, which also contains a 27 amino acid signal peptide and a 348 amino acid propeptide. This precursor undergoes intracellular dimerization, and upon secretion it is processed by a furintype protease. Recombinant Murine GDF-5 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: >= 98% by SDS-PAGE gel and HPLC analyses. **Content :** This recombinant protein is supplied in lyophilized form.

Amino Acid: APLANRQGKR PSKNLKARCS RKALHVNFKD MGWDDWIIAP LEYEAFHCEG LCEFPLRSHL EPTNHAVIQT

LMNSMDPEST PPTCCVPTRL SPISILFIDS ANNVVYKQYE DMVVESCGCR

Application Note

Determined by its ability to induce alkaline phosphatase production by ATDC-5 cells. The expected $\tilde{\mathbb{A}}$ $\hat{\mathbb{A}}$ $\hat{\mathbb{A}}$ for this effect is 1.0-2.0 $\tilde{\mathbb{A}}$ $\hat{\mathbb{A}}$ $\hat{\mathbb{A}}$