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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.coli**GDF-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 furin-type 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:  $10 \mu g / 50 \mu g$ 

**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  $\hat{A}$  ED<sub>50</sub> $\hat{A}$  for this effect is 1.0-2.0  $\hat{A}\mu$ g/ml.