

RMGH091

Recombinant FGF-2 (154 a. a.), Human, GMP

 100ug;

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Synonym/Alternative name(s) : HBGF-2, Prostatropin**Activity:**

Measure by its ability to induce 3T3 cells proliferation.

The ED50 for this effect is <1 ng/mL.

The specific activity of recombinant human FGF-2 is approximately >5 x 10⁵ IU/mg.**Protein Description:**

Basic fibroblast growth factor (FGF-2, bFGF, FGF- β), a 18 kDa pleiotropic cytokine, plays multiple roles in different cells and tissues. FGF-2 can stimulate smooth muscle cell growth, wound healing, and tissue repair. In addition, FGF-2 has been shown to regulate the generation of neurons and astrocytes from progenitor cells. FGF-2 are also involved in a variety of biological processes, including embryonic development, morphogenesis, tissue repair, tumor growth, and invasion. As a multifunctional cytokine, FGF-2 is first isolated from the pituitary. Later, it was identified from various cell types including cardiac myocytes, cardiac fibroblasts, endothelial cells, and smooth muscle cells.

Protein Accession : P09038.3**Gene ID** : 2247**Expression Sequence:**

AAGSITTLPALPEDGGSGAFPPGHFKDPKRLYCKNGGFFLRHPDGRVDGVREKSDPHIKLQLQAEERGVSIGKVCANRYLAMKEDGRLLASKCVTDECFERLESNNYNTYRSRKYTSWYVALKRTGQYKLGSKTGPQGKAILFLPMSAKS with polyhistidine tag at the N-terminus.

Fusion tag : His-tag?at?the?N-terminus**Species** : Human**Reactivity** : Human**Expression Host** : Escherichia coli**Source** : E. coli**Purity/method:**

>98% as determined by SDS-PAGE. Ni-NTA chromatography

Endotoxin level:<0.1 EU per 1 μ g of the protein by the LAL method.**Calculated Molecular Weight** : 18.1 kDa**Formulation:**

The protein was lyophilized from a solution containing 0.01% sarkosyl in 1X PBS, pH 8.0.

Reconstitution:It is recommended to reconstitute the lyophilized protein in sterile H₂O to a concentration not less than 100 μ g/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.**Shipping** : Blue Ice**Stability and Storage:**

Lyophilized protein should be stored at -20°C for 1 year.

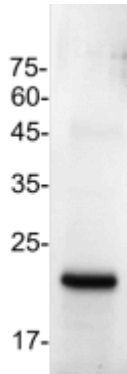
Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1%

BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months.

Category : Cytokines

Application : Cell culture, Elisa

Image:



SDS- PAGE analysis of GMP human FGF-

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