

RMCH091

Recombinant FGF-2 (154 a. a.) (Fibroblast growth factor basic), Human, AF



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20ug;100ug;500ug;

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:

FGF2, also known as a basic fibroblast growth factor (bFGF) and FGF- β , is a growth factor and signaling protein encoded by the FGF2 gene. FGF2 has been shown in preliminary animal studies to protect the heart from injury associated with a heart attack, reducing tissue death and promoting improved function after reperfusion. FGF-2 (bFGF) are also involved in a variety of biological processes, including embryonic development, morphogenesis, tissue repair, tumor growth, and invasion. Additionally, FGF-2 (bFGF) is frequently used for a critical component of cell culture medium, e.g., human embryonic stem cell culture medium, serum-free culture systems.

Protein Accession : P09038.3

Gene ID : 2247

Expression Sequence:

AAGSITTLPALPEDGGSGAFPPGHFKDPKRLYCKNGGFFLRHPDGRVDGVREKSDPHIKLQLQAEERGVSIVKVCANRYLAMKEDGR LLASKCVTDECFERLESNNYNTYRSRKYTSWYVALKRTGQYKLGSKTGPQGKAILFLPMSAKS 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 recombinant human FGF-2