

CHAMOT

Recombinant FGF-2 (aa 135-288.), Human, GMP

CM091-100HPG

CM091-1000HPG



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Recombinant FGF-2 (aa 135-288.), Human, GMP

Catalog#	CM091-100HPG	CM091-1000HPG
Size	100 ug	1 mg

Product Specifications

Background 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.

Synonyms fibroblast growth factor basic, HBGF-2, Prostatropin, bFGF, FGF basic

Uniprot ID P09038

Molecular Weight The protein has a calculated MW of 18.1 kDa. The protein migrates as 17 kDa under reducing condition (SDS-PAGE analysis).

Expression System Escherichia coli

Purity >98% as determined by SDS-PAGE analysis.

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.

Endotoxin Level <0.05 EU per 1 μ g of the protein by the LAL method.

Protein Sequence AAGSITTLPALPEDGGSGAFPPGHFKDPKRLYCKNGGFFLRIHPDGRVDGVREKSDPHIKLQ LQAEERGVSIGVCANRYLAMKEDGRLLASKCVTDECFFFERLESNNYNTYRSRKYTSWY VALKRTGQYKLGSKTGPQGKAILFLPMSAKS with polyhistidine tag at the N-terminus.

Form Lyophilized from a 0.2 μ m filtered solution of PBS containing 0.01% sarkosyl, pH 8

Application Cell Culture

Product Note

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H₂O to a concentration not less than 0.5 mg/mL and incubate the stock solution at RT for at least 20 min to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

Storage/Shipping

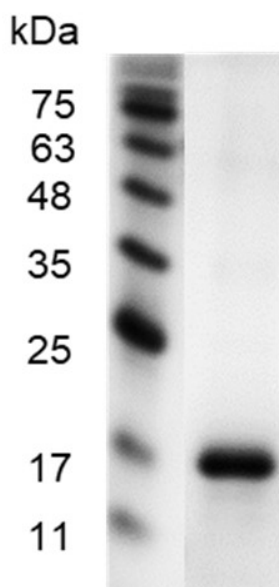
Stability & Storage

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. Avoid repeated freeze/thaw cycles.

Shipping

Blue Ice

Scientific Data



SDS- PAGE analysis of GMP human FGF-2 (aa 135-288)

For Research Use or Further Manufacturing Only

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