

## Active Recombinant Human FGF2 Protein (Ala135-Ser288), N-His tagged, Animal-free, Carrier-free

Cat. No. FGF2-94H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human FGF2 Protein (Ala135-Ser288) with N-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Ala135-Ser288
<b>Description</b>	Basic fibroblast Growth Factors (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.
<b>Form</b>	Lyophilized
<b>Bio-activity</b>	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 × 10 <sup>5</sup>

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	IU/mg.
<b>Molecular Mass</b>	The protein has a calculated MW of 18.1 kDa. The protein migrates as 17 kDa under reducing condition (SDS-PAGE analysis).
<b>Endotoxin</b>	< 0.1 EU/μg of the protein by the LAL method.
<b>Purity</b>	>98% as determined by SDS-PAGE analysis.
<b>Storage</b>	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
<b>Storage Buffer</b>	Lyophilized from a 0.2 μm filtered solution of PBS containing 0.01% sarkosyl, pH 8.0.
<b>Reconstitution</b>	It is recommended to reconstitute the lyophilized protein in sterile H <sub>2</sub> O to a concentration not less than 200 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

## GENE INFORMATION

<b>Gene Name</b>	FGF2 fibroblast growth factor 2 (basic) [ Homo sapiens (human) ]
<b>Official Symbol</b>	FGF2
<b>Synonyms</b>	FGF2; fibroblast growth factor 2 (basic); FGFB; fibroblast growth factor 2; prostatropin; heparin-binding growth factor 2; basic fibroblast growth factor bFGF;

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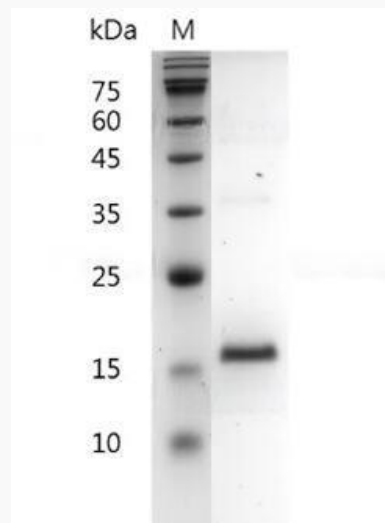
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BFGF; FGF-2; HBGF-2;

**Gene ID** 2247**mRNA Refseq** NM\_002006**Protein Refseq** NP\_001997**MIM** 134920**UniProt ID** P09038

**SDS-PAGE analysis  
of recombinant  
human FGF-2.**

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