

## 32-1166: FGF 2 (147 a.a.) Recombinant Protein

**Alternative Name :** Prostatropin,HBGH-2,HBGF-2,FGF-2,FGF-b.

### Description

Source : Escherichia Coli. Fibroblast Growth Factor-2 Human Recombinant (FGF-2) produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 147 amino acids and having a molecular mass of 16539 Dalton. The FGF2 is purified by proprietary chromatographic techniques. FGF-basic is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. This protein functions as a modifier of endothelial cell migration and proliferation, as well as an angiogenic factor. It acts as a mitogen for a variety of mesoderm- and neuroectoderm-derived cells in vitro, thus is thought to be involved in organogenesis. Three alternatively spliced variants encoding different isoforms have been described. The heparin-binding growth factors are angiogenic agents in vivo and are potent mitogens for a variety of cell types in vitro. There are differences in the tissue distribution and concentration of these 2 growth factors.

### Product Info

<b>Amount :</b>	50 µg
<b>Purification :</b>	Greater than 97.0% as determined by SDS-PAGE.
<b>Content :</b>	The bFGF was lyophilized from a concentrated (1mg/ml) sterile solution containing 10mM Na <sub>2</sub> PO <sub>4</sub> , pH=8.
<b>Storage condition :</b>	Lyophilized basic-FGF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution FGFb should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
<b>Amino Acid :</b>	MPALPEDGGS GAFPPGHFKD PKRLYCKNGG FFLRIHPDGR VDGVREKSDP HIKLQLQAE E RGVVSIGVC ANRYLAMKED GRLLASKCVT DECFFFERLE SNNYNTYRSR KYTSWYVALK RTGQYKLGSK TPGQKAILF LPMSAKS.

### Application Note

It is recommended to reconstitute the lyophilized FGF-B in sterile 18M $\Omega$ -cm H<sub>2</sub>O not less than 100 $\mu$ g/ml, which can then be further diluted to other aqueous solutions. The ED<sub>50</sub>, Calculated by the dose- dependent proliferation of mouse BALB/c 3T3 cells is 0.018-0.027ng/ml corresponding to a specific activity of 5.6x10<sup>7</sup> units/mg.

