

## FGF 1 Human

**Description:** Fibroblast Growth Factor-acidic Human Recombinant (FGF-1) produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 140 amino acids and having a molecular mass of approximately 15.8kDa. The FGF acidic is purified by proprietary chromatographic techniques.

**Synonyms:** HBGF-1, ECGF-beta, FIBP, FGFIBP, FIBP-1, ECGF, ECGFA, GLIO703, FGF1, FGF-a.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

**Amino Acid Sequence:** MFNLPPGNYK KPKLLYCSNG GHFLRILPDG TVDGTRDRSD  
QHIQLQLSAE SVGEVYIKST ETGQYLAMDT DGLLYGSQTP NEECLFLERL EENHYNTYIS  
KKHAEKNWFV GLKKNNGSCKR GPRTHYGQKA ILFLPLPVSS D.

**Purity:** Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

### Formulation:

The protein was lyophilized from a concentrated (1mg/ml) sterile solution containing PBS, pH 7.4.

### Stability:

Lyophilized Fibroblast Growth Factor-1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution FGF-a should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Solubility:

It is recommended to reconstitute the lyophilized Fibroblast Growth Factor-acidic in sterile 18M-cm H<sub>2</sub>O at 4 degrees Celsius at a concentration of 0.1mg-0.25mg per 1ml. Allow sample to sit for 5 min. at 4 degrees, spin to remove precipitant.

### Introduction:

Acidic fibroblast growth factor 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.

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**Biological Activity:**

The ED50, calculated by the dose-dependant proliferation of mouse BALB/c 3T3 cells is &lt;0.5 ng/ml, corresponding to a specific activity of &gt; 2.0 x 1,000,000IU/mg.

Catalog #:CYP5-271

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