



# SZABO SCANDIC

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## Produktinformation



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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Fibroblast Growth Factor acidic (FGF-1), mouse recombinant (rmFGF-1)

**Catalog No:** 97056  
**Lot No:** XXXXX  
**Source:** E. coli  
**Synonyms:** HBGF-1, ECGF-beta, FIBP, FGFIBP, FIBP-1, ECGF, ECGFA, GLIO703, FGF1, FGF-a.

### Background

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.

### Description

Fibroblast Growth Factor-acidic (FGF-1) mouse recombinant produced in E. coli is a single, non-glycosylated, polypeptide chain containing 141 amino acids and having a molecular mass of 15.9 kDa. FGF acidic is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

### Formulation

Lyophilized at a concentration of 1mg/ml in 5mM Na<sub>2</sub>PO<sub>4</sub>, pH 7.5 and 50mM NaCl.

### Solubility

It is recommended to reconstitute the lyophilized FGF-acidic in sterile 18 MΩ-cm H<sub>2</sub>O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

### 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.

### Purity

Greater than 98.0% as determined by SDS-PAGE.

### Amino Acid Sequence

MFNLPLGNYK KPKLLYCSNG GHFLRILPDG TVDGTDRDSD QHIQLQLSAE SAGEVYIKGT ETGQYLAMDT EGLLYGSQTP  
NEECLFLERL EENHYNTYTS KKHAENWVFW GLKKNNGSCKR GPRTHYGQKA ILFLPLPVSS D

### Activity

The ED<sub>50</sub> as determined by the dose-dependent proliferation of mouse BALB/c 3T3 cells, is less than 0.2ng/ml corresponding to a specific activity of 5x10<sup>6</sup> IU/mg.

### Usage

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