

# **CELUX® rec.human Fibroblast Growth Factor - Basic (rHuFGF-2)**

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**Cat. no. CC121034**

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## Product Information

|                     |                                                              |
|---------------------|--------------------------------------------------------------|
| <b>Product name</b> | CELUX® rec.human Fibroblast Growth Factor - Basic (rHuFGF-2) |
| <b>Cat.No.</b>      | CC121034                                                     |
| <b>Size</b>         | 10µg/50µg/1mg                                                |
| <b>Synonyms</b>     | Prostatropin, HBGH-2, HBGF-2, FGF-2, FGF-b.                  |

## 2. Product Description

Basic 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.

Human recombinant growth factor basic (FGF-2) is produced in E.Coli as a single, non-glycosylated, polypeptide of 154 amino acids and a molecular mass of 17.2 k Da.

Source: Escherichia coli

Purity: >98% determined by SDS-PAGE (silver stained) and RP-HPLC.

### Biological activity

The ED50, calculated by the dose-dependent proliferation of murine balb/c 3T3 cells is <0.1ng/mL, corresponding to a specific activity of greater than 1.0x10E7 Units/mg.

### Amino acid sequence:

AAGSITTLPA LPEDGGSGAF PPGHFKDPKR LYCKNGGFFL RIHPDGRVDG VREKSDPHIK  
LQLQAEERGV VSIKGVCANR YLAMKEDGRL LASKCVTDEC FFERLESNN YNTYRSRKYT  
SWYVALKRTG QYKLGSKTGP GQKAILFLPM SAKS

### Formulation

The protein was lyophilized from a concentrated (1mg/mL) sterile solution containing 20mM Tris/HCl, pH7.4, 1M NaCl.

### **Stability**

Lyophilized Fibroblast Growth Factor 2 although stable at room temperature for 3 weeks, should be stored desiccated below -20°C. Upon reconstitution FGF-a should be stored at +2°C to +8°C between 2-7 days and for future use below -20°C.

**Please prevent from repeated freeze-thawing cycles.**

### **Reconstitution**

We recommend reconstituting the lyophilised rhuFGF-2 in sterile water at a concentration of not less than 100µg/mL which can be further diluted to other aqueous solutions.

### **Usage**

This product is for research/laboratory usage only. It may not be used as drug, agricultural or pesticidal product, food additive or household chemical.