



## Product Datasheet

<b>Product Name</b>	Recombinant Human Fibroblast Growth Factor-Basic
<b>Cata No</b>	CB500011
<b>Source</b>	Escherichia Coli.
<b>Synonyms</b>	Prostatropin, HBGH-2, HBGF-2, FGF-2, FGF-b.

### 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.

Fibroblast Growth Factor-2 Human Recombinant (FGF-2) produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 155 amino acids and having a molecular mass of 17353 Dalton. The FGF-b is purified by proprietary chromatographic techniques

### Purity

Greater than 98.0% as determined by:  
(a) Analysis by RP-HPLC.

(b) Analysis by SDS-PAGE.

### Specific Activity

The ED50, calculated by the dose-dependant proliferation of BAF3 cells expressing FGF receptors (measured by <sup>3</sup>H-thymidine uptake) is <0.5 ng/ml, corresponding to a specific activity of 2 x 10<sup>6</sup> Units/mg.

### Reconstitution

It is recommended to reconstitute the lyophilized Fibroblast Growth Factor Basic in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

### Storage

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

### Formulation

The protein was lyophilized from a concentrated (1mg/ml) sterile solution containing 5mM Tris pH=7.5 and 150mM NaCl.