



## Product Datasheet

<b>Product Name</b>	Fibroblast Growth Factor-Basic Human Recombinant, Sf9
<b>Cata No</b>	CB500267
<b>Source</b>	<i>Baculovirus</i> .
<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 Sf9 insect cells is a single, glycosylated, polypeptide chain containing 155 amino acids and having a molecular mass of 17353 Dalton.

The FGF-basic is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile Filtered liquid formulation.

### Biological 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.

### Purity

Greater than 98.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

### Formulation

The sterile protein solution (0.5mg/ml) contains 20mM Tris pH=7.9, 100mM KCl, 1mM DTT and 20% glycerol.

### Stability

Fibroblast Growth Factor-basic although stable at 4°C for 3 weeks, should be stored desiccated 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.**

### Sequence

The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Ala-Gly-Ser-Ile.

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