



## RayBiotech, Inc.

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# Certificate of Analysis and Data Sheet Bovine Fibroblast Growth Factor-basic

**Catalog No.**  
228-10450

**Source**  
*Bovine Pituitary*

### ***Synonyms***

HBGH-2, HBGF-2, Prostatropin, FGF-2, FGB-b.

### ***Introduction***

FGF-basic is a member of the fibroblast growth factor (FGF) family. FGF family members bind heparin and possess broad mitogenic and angiogenic activities. This protein has been implicated in diverse biological processes, such as limb and nervous system development, wound healing, and tumor growth. The mRNA for this gene contains multiple polyadenylation sites, and is alternatively translated from AUG and non-AUG (CUG) initiation codons resulting in five different isoforms with distinct properties. The CUG-initiated isoforms are localized in the nucleus and are responsible for the intracrine effect, whereas, the AUG-initiated form is mostly cytosolic and is responsible for the paracrine and autocrine effects of this FGF.

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***

FGF-2 Bovine purified from bovine pituitary is a single, glycosylated, polypeptide chain having a molecular mass of 16kDa.

The basic-FGF is purified by proprietary chromatographic techniques.

### ***Physical Appearance***

Sterile Filtered White lyophilized (freeze-dried) powder.

### ***Solubility***

It is recommended to reconstitute the lyophilized FGF-2 Bovine Recombinant in sterile 18M $\Omega$ -cm H<sub>2</sub>O not less than 100 $\mu$ g/ml, which can then be further diluted to other aqueous solutions.

### ***Stability***

Lyophilized FGF2 Bovine although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution FGF-b Bovine Recombinant should be stored at 4°C between 2-7 days and for future use below -18°C.

**Please prevent freeze-thaw cycles.**

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**



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### ***Purity***

Greater than 95.0% as determined by

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

### ***Biological Activity***

The recommended concentration in responsive cells is 0.1 to 2ng/ml corresponding to a specific activity of 0.5-10MIU/mg.

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