

# PRODUCT DATA SHEET



Bioworld Technology, Inc.

## Recombinant FGF-basic, Mouse

Catalog Number: BK0057-10µg

Source: Escherichia coli.

Quantity: 10µg

### Description:

Fibroblast Growth Factor-basic (FGF-basic), also known as HBGF-2, is a non-glycosylated heparin-binding growth factor that belongs to the FGF family. FGF-basic is present in basement membranes and in the subendothelial extracellular matrix of blood vessels. FGF-basic signals through FGFR1, 2, 3 and 4 that plays an important role in the regulation of cell survival, cell division, angiogenesis, cell differentiation and cell migration. Recombinant mouse Fibroblast Growth Factor-basic (rmFGF-basic) produced in E.coli is a single non-glycosylated polypeptide chain containing 146 amino acids. A fully biologically active molecule, rmFGF-basic has a molecular mass of 16.4 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at GenScript.

### Molecular Weight:

16.4 kDa, observed by reducing SDS-PAGE.

### Purity:

> 95% by SDS-PAGE and HPLC analyses.

### Biological Activity:

ED50 < 0.5 ng/ml, measured by a cell proliferation assay using 3T3 Cells, corresponding to a specific activity of > 2.0 × 10<sup>6</sup> units/mg.

### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

### Formulation:

Lyophilized after extensive dialysis against PBS.

### AA Sequence:

MPALPEDGGAAFPFGHFKDPKRLYCKNGGFLL-  
RIHPDGRVDGVREKS-  
DPHVKLQLQAEERGVSISIKGVCANRYLAMKED-  
MKEDGRLLASKCVTEECFFFERLESNNYNTYRS-  
GRLLASKCVTEECFFFERLESNNYNTYRS-  
RKYSSWYVALKRTGQYKLGSKTGPGQKAIL-  
FLPMSAKS

### Endotoxin:

< 0.2 EU/µg, determined by LAL method.

### Reconstitution:

Reconstituted in ddH<sub>2</sub>O at 100 µg/ml.

### Storage:

Lyophilized recombinant mouse Fibroblast Growth Factor-basic (rmFGF-basic) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rmFGF-basic should be stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.

### Usage:

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