# PRODUCT DATA SHEET



Bioworld Technology,Inc.

# Recombinant FGF-basic, Rat

Catalog Number: BK0058-10µg Source: Escherichia coli. Quantity: 10µg

# **Description:**

Fibroblast Growth Factor-basic (FGF-basic), also known as FGF-2, is a pleiotropic cytokine and one of the prototypic members of the heparin-binding FGF family. Like other FGF family members, FGF-basic has the β trefoil structure. In vivo, FGF-basic is produced by a variety of cells, including cardiomycotes, fibroblasts, and vascular cells. FGF-basic regulates a variety of processes including cell proliferation, differentiation, survival, adhesion, motility, apoptosis, limb formation and wound healing. FGF-basic can be tumorigenic due to its role in angiogenesis and blood vessel remodeling. The angiogenic effects of FGF-basic can produce beneficial cardioprotection during acute heart injury.Recombinant rat Fibroblast Growth Factor-basic (rrFGF-basic) produced in E.coli is a single non-glycosylated polypeptide chain containing 146 amino acids. A fully biologically active molecule, rrFGF-basic has a molecular mass of 16.4 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques GenScript.

### **Molecular Weight:**

16.4 kDa, observed by reducing SDS-PAGE.

#### **Purity:**

> 95% by SDS-PAGE analysis.

### **Biological Activity:**

ED50 < 0.25 ng/mL, measured by a cell proliferation assay using 3T3 cells, corresponding to a specific activity of  $> 4 \times 10^6$  units/mg.

# **Physical Appearance:**

Sterile Filtered White lyophilized (freeze-dried) powder.

### **Formulation:**

Lyophilized after extensive dialysis against PBS.

# **AA Sequence:**

GPALPEDGGGAFPPGHFKDPKRLYCKNGGFFL-RIHPDGRVDGVREKS-

DPHVKLQLQAEERGVVSIKGVCANRYLAMKED-MKEDGRLLASKCVTEECFFFERLESNNYNTYRS-GRLLASKCVTEECFFFERLESNNYNTYRS-RKYSSWYVALKRTGQYKLGSKTGPGQKAIL-FLPMSAKS

#### **Endotoxin:**

< 0.2 EU/µg, determined by LAL method.

# **Reconstitution:**

Reconstituted in ddH2O at 100 µg/mL.

### **Storage:**

Lyophilized recombinant rat Fibroblast Growth Factor-basic (rrFGF-basic) remains stable up to 6 months at -80  $^{\circ}$ C from date of receipt. Upon reconstitution, rrFGF-basic remains stable up to 2 weeks at 4  $^{\circ}$ C or up to 3 months at -20  $^{\circ}$ C.

#### Usage

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. For research use only.

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