

## PRODUCT DATA SHEET



Bioworld Technology, Inc.

### Recombinant Rat Fibroblast Growth Factor-basic (rRtbFGF )

Catalog Number: PR3002

Source: Escherichia coli.

Quantity: 10µg/50µg/1.0mg

#### Description

FGF-basic is one of 23 known members of the FGF family. Proteins of this family play a central role during prenatal development and postnatal growth and regeneration of a variety of tissues, by promoting cellular proliferation and differentiation. FGF-basic is a non-glycosylated heparin binding growth factor that is expressed in the brain, pituitary, kidney, retina, bone, testis, adrenal gland liver, monocytes, epithelial cells and endothelial cells. FGF-basic signals through FGFR 1b, 1c, 2c, 3c and 4.

#### Molecular Weight:

Approximately 16.3 kDa, a single non-glycosylated polypeptide chain containing 145 amino acids.

#### Purity:

>98% by SDS-PAGE and HPLC analyses.

#### Biological Activity:

Fully biologically active when compared to standard. The ED50 as determined by the dose-dependent stimulation of thymidine uptake by 3T3 cells is  $\leq 0.2$  ng/ml, corresponding to a specific activity of  $\geq 5 \times 10^6$  units/mg.

#### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

#### Formulation:

Lyophilized from a 0.2mm filtered solution in PBS, pH 7.4.

#### AA Sequence:

P A L P E D G G G A F P P G H F K D P K R L Y C K N G  
G F F L R I H P D G R V D G V R E K S D P H V K L Q L

Q A E E R G V V S I K G V C A N R Y L A M K E D G R  
L L A S K C V T E E C F F F E R L E S N N Y N T Y R S  
R K Y S S W Y V A L K R T G Q Y K L G S K T G P G Q  
K A I L F L P M S A K S

#### Endotoxin:

Less than 1EU/mg of rRabFGF as determined by LAL method.

#### Reconstitution:

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at  $< -20^{\circ}\text{C}$ . Further dilutions should be made in appropriate buffered solutions.

#### Storage:

This lyophilized preparation is stable at  $2-8^{\circ}\text{C}$ , but should be kept at  $-20^{\circ}\text{C}$  for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at  $2-8^{\circ}\text{C}$ . For maximal stability, apportion the reconstituted preparation into working aliquots and store at  $-20^{\circ}\text{C}$  to  $-70^{\circ}\text{C}$ . Avoid repeated freeze/thaw cycles.

#### Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE. Made in China

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