

# PRODUCT DATA SHEET



Bioworld Technology, Inc.

## Recombinant FGF-4, Human

Catalog Number: BK0042-5µg

Source: Escherichia coli.

Quantity: 5µg

### Description:

Fibroblast Growth Factor-4 (FGF-4) also known as K-FGF is a heparin-binding growth factor of the FGF family. It was identified by its oncogenic transforming activity. FGF-4 and FGF-3 are located closely on chromosome 11. FGF-4 and its receptors (FGF R1c, 2c, 3c and 4) play an important role in the regulation of embryonic development, cell proliferation, and cell differentiation. FGF-4 is required for normal limb and cardiac valve development during embryogenesis. Recombinant human Fibroblast Growth Factor-4 (rhFGF-4) produced in E.coli is a single non-glycosylated polypeptide chain containing 177 amino acids. A fully biologically active molecule obtained by proprietary chromatographic techniques at GenScript, rhFGF-4 has a molecular mass of 19.4kDa as analyzed by reducing SDS-PAGE.

### Molecular Weight:

19.4kDa, observed by reducing SDS-PAGE.

### Purity:

> 95% by SDS-PAGE and HPLC analyses.

### Biological Activity:

ED50 < 0.5ng/ml, measured in 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 50mM HEPES, 750mM NaCl, pH7.5.

### AA Sequence:

MAPTAPNGTLE-  
AELERRWESLVALSLARLPVAAQP-  
KEAAVQSGAGDYLLGIKRLRRLYC-  
NVGIGFHLQALPDGRIGGAHADTRDSLLEL-  
SPVERGVVSIFGVASRFFVAMSSKGKLYG-  
SPFFTDECTFKEILLPNNYNAYESYKYPGM-  
FIALSKNGKTKKGNRVSPMKVTHFLPRL

### Endotoxin:

< 0.2 EU/µg, determined by LAL method.

### Reconstitution:

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

### Storage:

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

### Usage:

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