

# PRODUCT DATA SHEET



Bioworld Technology, Inc.

## Recombinant FGF-8f, Human

Catalog Number: BK0048-1mg

Source: Escherichia coli.

Quantity: 1mg

### Description:

Fibroblast Growth Factor 8f (FGF-8f) is a cytokine belonging to the heparin-binding FGF family, which has at least 23 members. FGF-8 has 8 different isoforms, named FGF-8a through FGF-8h. Different FGF-8 isoforms have different receptor affinities, and thus participate in different signaling cascade pathways. FGF-8 has widespread expression during embryonic development, promoting gastrulation, somitogenesis, morphogenesis, and limb formation. FGF-8 also has oncogenic potential. While in normal cells FGF-8 is expressed at very low levels, in breast, prostate and ovarian cancer FGF-8 is highly expressed. FGF-8 promotes tumor angiogenesis by increasing neovascularization, and inducing osteoblastic differentiation. Recombinant human Fibroblast Growth Factor 8f (rhFGF-8f) produced in E.coli is a single non-glycosylated polypeptide chain containing 223 amino acids. A fully biologically active molecule, rhFGF-8f has a molecular mass of 25.5 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

### Molecular Weight:

25.5 kDa, observed by reducing SDS-PAGE.

### Purity:

> 95% by SDS-PAGE analysis.

### Biological Activity:

ED50 < 50ng/mL, measured by a cell proliferation assay using 3T3 cells in the presence of 10 µg/ml of heparin, corresponding to a specific activity of > 2 × 10<sup>4</sup> units/mg.

### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

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### Formulation:

Lyophilized after extensive dialysis against PBS.

### AA Sequence:

MQEGPGRGPALGRELASLF-  
RAGREPQGVSSQVTVQSSP-  
NFTQHVREQSLVTDQLSRRLIR-  
TYQLYSRTSGKHVQVLANK-  
RINAMAEDGDPFAKLIVETDTEFGS-  
RVRVRGAETGLYICMNKKGKLIK-  
SNGKGDVCFTEIVLENNYTALQNAKYEG-  
WYMAFTRKGRPRKGSKTRQHQRVHFMKRL-  
PRGHHTTEQSLRFEFLNY-  
PPFTRSLRGSQRTWAPEPR

### 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 8f (rhFGF-8f) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rhFGF-8f remains stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.

### Usage:

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