



# Technical Data Sheet / 技术说明书

## Recombinant Human bFGF

### 重组人碱性成纤维细胞生长因子

Catalog Number / 货号: C010

Host / 表达系统: E. coli (大肠杆菌)

Form / 性状: Liquid (澄清透明液体)

Regulatory Status: For Research Use Only (仅供科研使用)

## 1. Product Overview / 产品概览

| Feature / 特性           | Specifications / 规格指标  |
|------------------------|--|
| Synonyms / 别名          | basic Fibroblast Growth Factor, bFGF, FGF-2, 成纤维细胞生长因子 basic 蛋白, b 成纤维细胞生长因子蛋白 |
| Species / 种属           | Human / 智人   |
| UniProt / Gene ID      | P09038 / 2247  |
| Molecular Weight / 分子量 | ~17 kDa  |
| Concentration / 浓度     | 200 µg/mL  |
| Purity / 纯度            | > 98% as determined by SDS-PAGE  |
| Endotoxin / 内毒素        | < 0.5 EU/µg by LAL method (LAL 法)  |
| Formulation / 组分       | NaAc buffer with Mannitol (NaAc 缓冲液, 含甘露醇)                                     |

## 2. Biological Activity / 生物活性

- Assay Method:** Proliferation assay using NIH-3T3 mouse fibroblast cells.
- Performance:** The **ED<sub>50</sub>** is **< 1.0 ng/mL**, corresponding to a specific activity of **> 1.0 × 10<sup>6</sup> IU/mg**.
- 生物学活性:** 经 NIH-3T3 细胞检测, 其半数效应浓度 (ED<sub>50</sub>) < 1.0 ng/mL, 对应比活性高于 1.0 × 10<sup>6</sup> units/mg。

## 3. Amino Acid Sequence / 氨基酸序列

154 aa, Mature Human bFGF sequence:

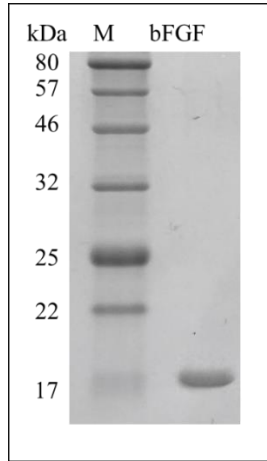
AAGSITTLPA LPEDGGSGAF PPGHFKDPKR LYCKNGGFLL  
RIHPDGRVDG VREKSDPHIK LQLQAEERGV VSIKGVCANR



YLAMKEDGRL LASKCVTDEC FFFERLESNN YNTYRSRKYT  
SWYVALKRTG QYKLGSKTGP GQKAILFLPM SAKS

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#### 4. Quality Control / 质量控制



- **SDS-PAGE Analysis:** Purity > 98%
  - **SDS-PAGE 凝胶电泳图:** 纯度 > 98%
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#### 5. Usage & Storage / 使用与储存

- **Storage (储存):**
    - **Unopened:** Stable for 12 months at -20°C. (-20°C 下稳定保存一年)
    - **Opened/Diluted:** Aliquot and store at -20°C or -80°C for long-term stability. Avoid repeated freeze-thaw cycles. (分装并在 -20°C 以下保存, 避免反复冻融)
  - **Handling (使用指导):**
    - Centrifuge the vial briefly before opening. (使用前请先离心)
    - It is recommended to dilute in PBS containing **0.1% BSA** or **Human Serum Albumin (HSA)** to maintain protein stability. (建议使用含 0.1% BSA 或人血白蛋白的 PBS 进行稀释)
    - Avoid diluting to a final concentration of less than **50 µg/mL**. (避免稀释至 50 µg/mL 以下分装保存)
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#### 6. Contact & Support / 联系方式

**Biopharmagen Corp. / 苏州方舟生物科技有限公司**

**Address:** Room 408-410, Bldg 2, Hengchuang Tech Park, 128 East Jinling Rd, Suzhou, China/江苏省苏州市工业园区金陵东路 128 号恒创科技园 2 幢 408-410

**Email:** [research@biopharmagen.com](mailto:research@biopharmagen.com)

**Website:** <https://biopharmagen.com/>

**Tel:** +86-18913198920

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