

## Recombinant Human FGF basic/FGF2/bFGF GMP Protein

### 重组人碱性成纤维细胞生长因子(GMP 级)

#### 产品信息

产品名称	产品编号	规格
Recombinant Human FGF basic/FGF2/bFGF GMP Protein 重组人碱性成纤维细胞生长因子	91341ES10	10 µg
	91341ES50	50 µg
	91341ES60	100 µg
	91341ES80	1mg (10×100µg)

#### 产品简介

碱性成纤维细胞生长因子 (bFGF) 是成纤维细胞生长因子 (FGF) 家族的成员, 是由 FGF2 基因编码的生长因子和信号蛋白。FGF 家族成员具有广泛的促有丝分裂和细胞存活活性, 并参与多种生物学过程, 包括胚胎发育、细胞生长、形态发生、组织修复、肿瘤生长和侵袭。在正常组织中, bFGF 存在于基底膜和血管内皮下细胞外基质中。bFGF 能刺激和调节血管内皮细胞、上皮细胞、成肌细胞、成骨细胞和神经胶质细胞等多种起源于中胚层、神经外胚层的细胞分化增殖, 在胚胎发育、组织愈合中起重要作用。bFGF/FGF-2, 是所有胚胎和诱导多能干细胞培养基中维持多能性的基本成分。

本品由大肠杆菌表达, 以液体形式提供, 高活性、高纯度、低内毒素、无标签。

#### 性能参数

别名 (Synonyms)	bFGF, FGF basic, FGF2, FGF-2, fibroblast growth factor 2 (basic), HBGF-2, Prostatropin.
表达系统 (Source)	Human bFGF Protein is expressed from <i>E.coli</i> without tag.
表达序列 (Sequence)	Ala 144 - Ser 288.
分子量 (Molecular Weight)	Approximately 16.29 kDa.
Accession	P09038.
生物活性 (Biological Activity)	The ED50 as determined by a cell proliferation assay using murine balb/c 3T3 cells is less than 1 ng/mL, corresponding to a specific activity of $> 5.0 \times 10^6$ IU/mg.
纯度 (Purity)	$> 95\%$ as determined by SDS-PAGE and HPLC.
内毒素 (Endotoxin)	$< 0.01$ EU/µg protein as determined by LAL method.
无菌 (Sterility)	Negative.
支原体检测 (Mycoplasma)	Negative.

外源病毒 (Viro Virus)	Negative.
宿主残留蛋白 (Host Cell Protein)	Less than 0.5 ng/ug when tested by ELISA.
宿主残留 DNA (Host Cell DNA)	Less than 20 ng/mg when tested by qPCR.
制剂 (Formulation)	Liquid from 0.22 $\mu$ m filtered solution in PBS.
外观 (Physical Appearance)	Liquid.

### 储存条件

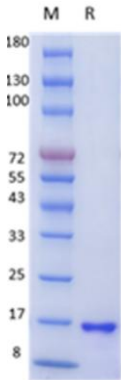
-85~-65°C保存，有效期 2 年。

### 注意事项

- 1.为了您的安全和健康，请穿实验服并戴一次性手套操作。
- 2.本产品仅作科研用途。

### 产品数据

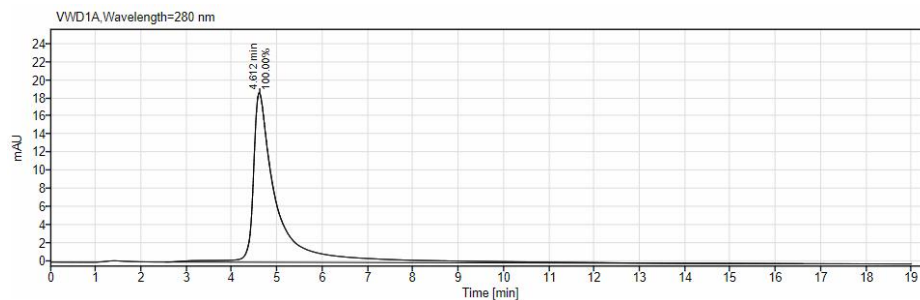
#### SDS-PAGE



Human FGF basic/FGF2/bFGF on SDS-PAGE under reduced condition.

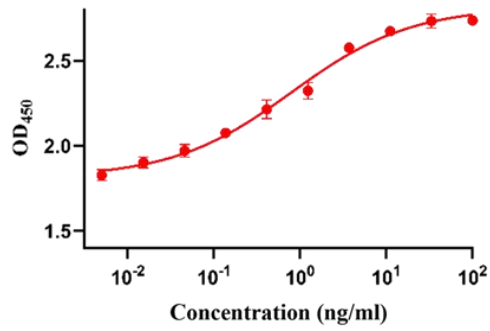
The purity is greater than 95%.

#### SEC-HPLC



The purity of Human bFGF is greater than 95% as determined by SEC-HPLC.

## Cell Based Assay



The ED<sub>50</sub> as determined by a cell proliferation assay using murine balb/c 3T3 cells is less than 1 ng/mL, corresponding to a specific activity of  $> 5.0 \times 10^6$  IU/mg.