

# CHAMOT

重组人成纤维生长因子-2/碱性成纤维细胞生长因子  
/Recombinant FGF-2 (bFGF/basic FGF) ,  
Human, Animal-Free, Tag free

CM091-20HP



CM091-100HP



CM091-500HP



CM091-1000HP



CHAMOT

乔默®生物

Specialize In Cytokines

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## 重组人成纤维生长因子-2/碱性成纤维细胞生长因子 /Recombinant FGF-2 (bFGF/basic FGF) , Human, Animal-Free, Tag free

产品编号	CM091-20HP	CM091-100HP	CM091-500HP	CM091-1000HP
规格	20 µg	100 µg	500 µg	1 mg

### 产品简介

#### 背景描述

Basic fibroblast Growth Factors (FGF-2, bFGF, FGF- $\beta$ ), a 18 kDa pleiotropic cytokine, plays multiple roles in different cells and tissues. FGF-2 can stimulate smooth muscle cell growth, wound healing, and tissue repair. In addition, FGF-2 has been shown to regulate the generation of neurons and astrocytes from progenitor cells. FGF-2 are also involved in a variety of biological processes, including embryonic development, morphogenesis, tissue repair, tumor growth, and invasion. As a multifunctional cytokine, FGF-2 is first isolated from the pituitary. Later, it was identified from various cell types including cardiac myocytes, cardiac fibroblasts, endothelial cells, and smooth muscle cells.

#### 别称

Fibroblast Growth Factors 2, Basic fibroblast Growth Factors , bFGF, Heparin-binding Growth Factors 2 , HBGF-2

#### 蛋白编码

P09038

#### 分子量

The protein has a calculated MW of 18.1 kDa. The protein migrates as 15-18 kDa under reducing condition (SDS-PAGE analysis).

#### 表达系统

Escherichia coli

#### 纯度

>98% as determined by SDS-PAGE.

#### 生物活性

Measure by its ability to induce 3T3 cells proliferation. The ED<sub>50</sub> for this effect is <1 ng/mL. The specific activity of recombinant human FGF-2 is approximately >5 x 10<sup>5</sup> IU/mg.

#### 内毒素检测

<0.1 EU per 1 µg of the protein by the LAL method.

#### 蛋白序列

A DNA sequence encoding Human FGF-2 Protein(#P09038) (Ala144-Ser288) was expressed.

#### 产品形式

The protein was lyophilized from a 0.2 µm filtered solution containing 20 mM Tris, 1 M NaCl, pH 7.4. If you have any concerns or special requirements, please confirm with us.

## 产品使用

1. Before opening, centrifuge at 3000 rpm for 5 mins.

### 2. Initial Reconstitution

- Reconstitute the Lyophilized Protein in sterile H<sub>2</sub>O to a concentration of 100-200 µg/mL.
- Then, incubate it at room temperature for at least 20 mins to ensure sufficient dissolution.  
*Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.*
- Store at 2°C to 8°C for up to 1 week.

### 3. Extended Storage

- After the initial reconstitution, further dilute the reconstituted protein in a buffer containing a carrier protein or stabilizer (e.g., 0.1% BSA, 10% FBS, 5% HSA, or 5% trehalose solution). The final concentration is not less than 10 µg/ml.
- Prepare aliquots ( $\geq 20 \mu\text{l}$ ).
- Store at -20°C or -80°C for 3 to 6 months.

*Avoid repeated freeze-thaw cycles.*

## 产品储存/运输

**Lyophilized Protein:** Store at -20°C for 1 year.

储存

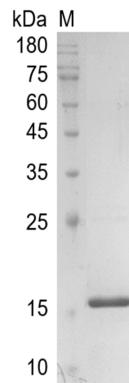
**Initial Reconstitution:** Store at 2°C to 8°C for up to 1 week.

**Extended Storage:** Store at -20°C or -80°C for 3 to 6 months with a carrier protein or stabilizer.

运输

Blue Ice

## 实验数据展示



SDS-PAGE analysis of recombinant human FGF-2

## 文献引用

- USP8 positively regulates hepatocellular carcinoma tumorigenesis and confers ferroptosis resistance through  $\beta$ -catenin stabilization. *Cell Death Dis.* 2023 Jun 13;14(6):360. (IF 9.696) (Human EGF/bFGF)

For Research Use or Further Manufacturing Only

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