

# CHAMOT

**重组猪成纤维生长因子-2/碱性成纤维细胞生长因子  
/Recombinant FGF-2 (bFGF/basic FGF) , Swine,  
Animal-Free**

CM019-5SP

CM019-20SP

CM019-100SP

CM019-500SP

CM019-1000SP



CHAMOT

乔默®生物

*Specialize In Cytokines*

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## 重组猪成纤维生长因子-2/碱性成纤维细胞生长因子 /Recombinant FGF-2 (bFGF/basic FGF) , Swine, Animal-Free

产品编号	CM019-5SP	CM019-20SP	CM019-100SP	CM019-500SP	CM019-1000SP
规格	5 µg	20 µg	100 µg	500 µg	1 mg

### 产品简介

#### 背景描述

Basic fibroblast Growth Factors (FGF-2, bFGF), a 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 factor 2, Fgfb, bFGF, FGF-basic

#### 蛋白编码

NP\_001392443

#### 分子量

The protein has a calculated MW of 18.1 kDa. The protein migrates as 17 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 proliferation in 3T3 cells. The ED<sub>50</sub> for this effect is <2 ng/mL.

#### 内毒素检测

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

#### 蛋白序列

AAGSITTLPALPEDGGSGAFPPGHFKDPKRLYCKNGGFFLRIHPDGRVDGVREKSDPHIKLQLQAEERGVSIGVCANRYLAMKEDGRLLASKCVTDECFERLESNNYNTYRSRKYSWYVALKRTGQYKLGPKTGPQKAILFLPMSAKS with polyhistidine tag at the N-terminus.

#### 产品形式

The protein was lyophilized from a 0.2 µm filtered solution containing 0.01% sarkosyl in 1X PBS, 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 (≥20 µl).
- 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

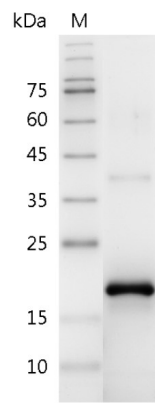
**Initial Reconstitution:** Store at 2°C to 8°C for up to 1 week.

**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 swine FGF-2

For Research Use or Further Manufacturing Only

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