

CHAMOT

**重组小鼠/大鼠成纤维生长因子-2/碱性成纤维细胞生长因子 /Recombinant FGF-2 (bFGF/basic FGF) ,
Mouse/Rat, Animal-Free**

CM058-20MP

CM058-100MP

CM058-500MP

CM058-1000MP



CHAMOT

乔默®生物

Specialize In Cytokines

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重组小鼠/大鼠成纤维生长因子-2/碱性成纤维细胞生长因子 /Recombinant FGF-2 (bFGF/basic FGF) , Mouse/Rat, Animal-Free

产品编号	CM058-20MP	CM058-100MP	CM058-500MP	CM058-1000MP
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), 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 basic, HBGF-2, Prostatropin, bFGF, FGF basic

蛋白编码

P15655(Mouse), P13109.1(Rat)

分子量

The protein has a calculated MW of 17.2 kDa. The protein migrates as 19 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 ED₅₀ for this effect is <1.5 ng/mL. The specific activity of recombinant mouse FGF-2 is approximately >1 x 10⁶ IU/mg.

内毒素检测

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

蛋白序列

ALPEDGGAAFPFGHFKDPKRLYCKNGGFFLRHPDGRVDGVREKSDPHVKLQLQAEERGVS
KGVCANRYLAMKEDGRLLASKCVTEECFFFERLESNNYNTYRSRKYSWYVALKRTGQYKLGS
KTGPGQKAILFLPMSAKS with polyhistidine tag at the N-terminus.

交叉反应

Rat (99.31%)

产品形式

The protein was lyophilized from a 0.2 μm filtered solution containing 0.01% sarkosyl in 1X PBS, pH 8.0. If you have any concerns or special requirements, please confirm with us.

产品应用

Cell Culture

产品使用

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

2.Initial Reconstitution

- Reconstitute the Lyophilized Protein in sterile H_2O to a concentration of 100-200 $\mu\text{g/mL}$.
- 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 $\mu\text{g/mL}$.
- 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

储存

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

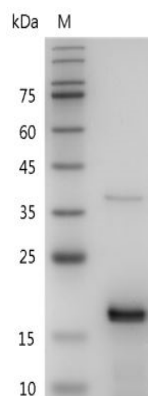
Initial Reconstitution: Store at 2°C to 8°C for up to 1 week.

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 mouse FGF-2

For Research Use or Further Manufacturing Only

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