

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

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|------|------------|-------------|-------------|--------------|
| 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-β), 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 ED₅₀ for this effect is <1 ng/mL. The specific activity of recombinant human FGF-2 is approximately >5 x 10⁵ 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 H₂O 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

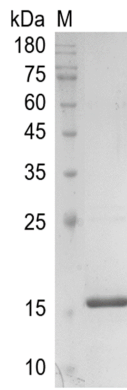
Initial Reconstitution: Store at 2°C to 8°C for up to 1 week.

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 human FGF-2

文献引用

- USP8 positively regulates hepatocellular carcinoma tumorigenesis and confers ferroptosis resistance through β -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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