

# CHAMOT

**重组小鼠巨噬细胞集落刺激因子 /Recombinant M-CSF, Mouse, Animal-Free**

CM061-5MP

CM061-20MP

CM061-100MP

CM061-500MP

CM061-1000MP



CHAMOT

乔默®生物

*Specialize In Cytokines*

# CONTENT

1 产品简介

2 产品使用

3 产品储存/运输

4 实验数据展示

5 文献引用

## 重组小鼠巨噬细胞集落刺激因子 /Recombinant M-CSF, Mouse, Animal-Free

|      |           |            |             |             |              |
|------|-----------|------------|-------------|-------------|--------------|
| 产品编号 | CM061-5MP | CM061-20MP | CM061-100MP | CM061-500MP | CM061-1000MP |
| 规格   | 5 µg      | 20 µg      | 100 µg      | 500 µg      | 1 mg         |

### 产品简介

#### 背景描述

Macrophage Colony-Stimulating Factor (M-CSF) is a 19.02 kDa hematopoietic Growth Factors with 162 amino acid residues. The active form of the protein is homodimer, and secreted by osteoblasts. M-CSF controls the production, differentiation, and function of monocytes, macrophages, and bone marrow progenitor cells. M-CSF is able to activate CSF-1 signaling pathway via binding its receptor CSF-1R.

#### 别称

macrophage colony-stimulating factor, CSF-1, MGI-IM, CSF1

#### 蛋白编码

P07141

#### 分子量

The protein has a calculated MW of 19.02 kDa. The protein migrates as 17-25 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 NFS-60 cells. The ED<sub>50</sub> for this effect is <6 ng/mL.

#### 内毒素检测

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

#### 蛋白序列

MKEVSEHCSHMIGNGHLKVLQQLIDSQMETSCQIAFEFVDQEQLDDPVCYLKKAFFLVQDIID  
ETMRFKDNTPNANATERLQELSNNLNSCFTKDYEEQNKACVRTFHETPLQLLEKIKNFFNETK  
NLLEKDWNIPTKNCNNSFAKSSRDVVTKP with polyhistidine tag at the C-terminus

#### 产品形式

The protein was lyophilized from a 0.2 µm filtered solution containing 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<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

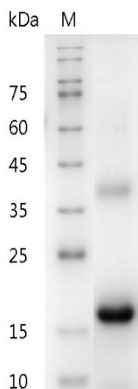
**Initial Reconstitution:** Store at 2°C to 8°C for up to 1 week.

**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



## 文献引用

- DNA Origami Enhanced Cytokine Immunotherapy for Alleviating Renal Ischemia-Reperfusion Injury. ACS Appl Mater Interfaces. 2024 Jul 19. (IF 8.7)(Mouse M-CSF)
- Ameliorating Lung Fibrosis and Pulmonary Function in diabetic mice: Therapeutic Potential of Mesenchymal Stem Cell. Biochem Biophys Res Commun. 2024 Aug 5;737:150495. (IF 2.5)(Mouse M-CSF)
- CD44 is a macrophage receptor for TcdB from Clostridioides difficile that via its lysine-158 succinylation contributes to inflammation. Gut Microbes. 2025 May 18;17(1):2506192. (IF 12.3)(Mouse M-CSF)
- Spleen Tyrosine Kinase Exacerbates Anti-Citrullinated Protein/Peptide Antibody-Mediated Osteoclast Bone Resorption via Promotion of Vav3 Phosphorylation. Cell Biol Int. 2025 Aug 11. (IF 3.1) (Human/Mouse M-CSF, RANKL)

For Research Use or Further Manufacturing Only

Chamot Biotechnology(Shanghai) Co., Ltd. [www.chamot-bio.com](http://www.chamot-bio.com)

Tel: 021-51880030    Mail: [info@chamot-bio.com](mailto:info@chamot-bio.com)    QQ: 864920491