

# 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



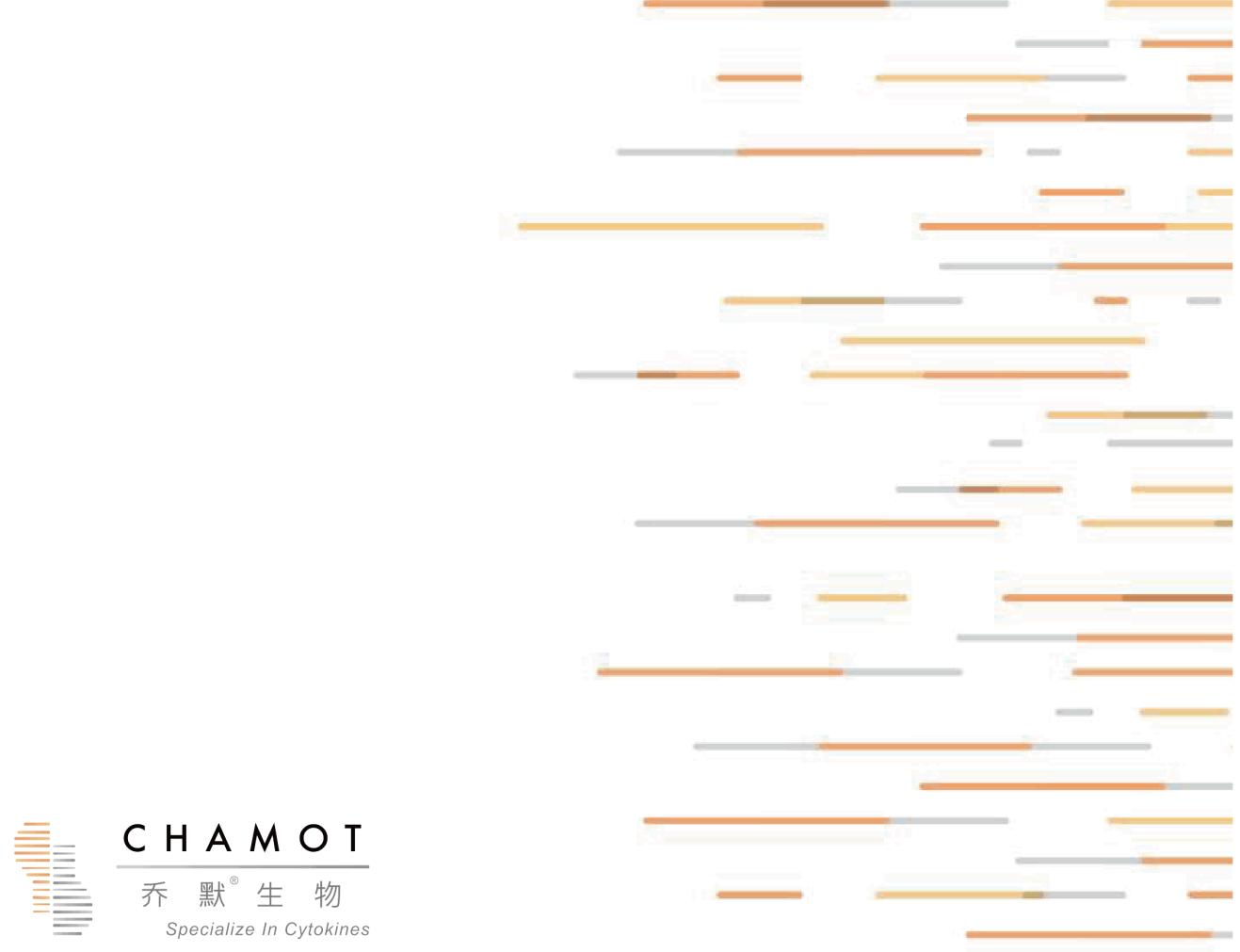
CM061-100MP



CM061-500MP



CM061-1000MP



CHAMOT

乔默®生物

Specialize In Cytokines

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## 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	MKEVSEHCSHMIGNGHLKVLQLIDSQMETSCQIAFEFVDQEQLDDPVCYLKKAFFLVQDIID ETMRFKDNTPNANATERLQELSNNLNSCFTKDYEQNKA CVRTFHETPLQLLEKIKNFFNETK NLLEKDWNIFTKNCNNFAKCSSRDVVTKP 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 ( $\geq 20 \mu\text{l}$ ).
- 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

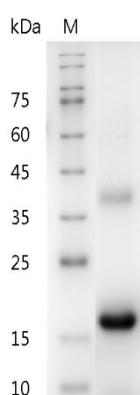
**Initial Reconstitution:** Store at 2°C to 8°C for up to 1 week.

**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



## 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

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