

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 ED₅₀ 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 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

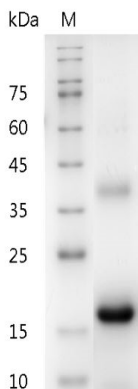
Initial Reconstitution: Store at 2°C to 8°C for up to 1 week.

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



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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