

CHAMOT

重组小鼠粒细胞-巨噬细胞集落刺激因子 /Recombinant GM-CSF, Mouse, Animal-Free

CM060-5MP

CM060-20MP

CM060-100MP

CM060-500MP

CM060-1000MP



CHAMOT

乔默®生物

Specialize In Cytokines

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重组小鼠粒细胞-巨噬细胞集落刺激因子 /Recombinant GM-CSF, Mouse, Animal-Free

产品编号	CM060-5MP	CM060-20MP	CM060-100MP	CM060-500MP	CM060-1000MP
规格	5 µg	20 µg	100 µg	500 µg	1 mg

产品简介

背景描述

Granulocyte-macrophage colony-stimulating factor (GM-CSF) was first identified as a Growth Factors due to its ability to induce proliferation and differentiation of bone marrow progenitors into granulocytes and macrophages. GM-CSF is produced by multiple cell types including activated T cells, B cells, macrophages, endothelial cells and fibroblasts upon receiving immune stimuli. GM-CSF stimulates stem cells to produce granulocytes and monocytes functions as a cytokine.

别称

granulocyte-macrophage colony-stimulating factor, colony stimulating factor 2, CSF2, CSF, Csfg, Csfgm, GMCS, GMCSF, Gm-CS, Gm-CSf, MGI-I, MGI-IGM

蛋白编码

P01587

分子量

The protein has a calculated MW of 15.1 kDa. The protein migrates as 17 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 FDC-P1 cells. The ED₅₀ for this effect is <50 pg/mL. The specific activity of recombinant mouse GM-CSF is approximately >2 x 10⁷ IU/mg.

内毒素检测

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

蛋白序列

APTRSPITVTRPWKHVEAIKEALNLLDDMPVTLNEEVEVVSNEFSFKKLCVQTRLKIFEQGLRG NFKLKGALNMTASYQTYCPPTPETDCETQVTYADFIDSLKTLTDIPFECKKPVQK with polyhistidine tag at the N-terminus.

产品形式

The protein was lyophilized from a 0.2 µm filtered solution containing 1X PBS, pH 7.4. 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

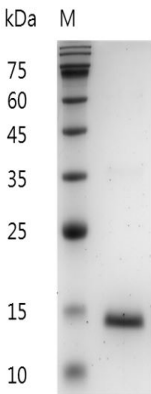
Initial Reconstitution: Store at 2°C to 8°C for up to 1 week.

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

- Disulfiram ameliorates STING/MITA-dependent inflammation and autoimmunity by targeting RNF115. *Cell Mol Immunol.* 2024 Jan 24. (IF 24.1) (Mouse GM-CSF)
- Lyssavirus matrix protein inhibits NLRP3 inflammasome assembly by binding to NLRP3. *Cell Rep.* 2024 Jul 9;43(7):114478. (IF 7.5)(Mouse GM-CSF)
- Oral *Saccharomyces cerevisiae*-Guided Enzyme Prodrug Therapy Combined with Immunotherapy for the Treatment of Orthotopic Colorectal Cancer. *ACS Nano.* 2024 Aug 27;18(34):23497-23507. (IF 15.8) (Mouse GM-CSF, Mouse IL-4)
- Disrupting Intracellular Homeostasis by Copper-Based Nanoinducer with Multiple Enzyme-Mimicking Activities to Induce Disulfidptosis-Enhanced Pyroptosis for Tumor Immunotherapy. *Adv Mater.* 2024 Oct 29:e2410957.(IF 27.4)(Mouse GM-CSF)
- Inhibiting Chemotherapy Immune Tolerance and Reversing Tumor Microenvironment by Macrophage-Targeted Nanohybrid Systems for Enhancing Tumor Chemo-Immunotherapy. *Adv. Funct. Mater.* 2025 April 7, 2501954. (IF 18.5)(Mouse GM-CSF)
- A Candidalysin-Neutralizing Nanomodulator Enhances Colorectal Cancer Immunotherapy by Targeting Fungi–Macrophage Crosstalk. *Journal of the American Chemical Society*, 2025, 208 1..(IF 15.7)(Mouse GM-CSF)
- Senescence Reprogramming Unleashes Tumor Immune Surveillance via Coordinated Gene Modulation. *Adv Mater.* 2025 Dec 1:e16597. (IF 26.8)(Mouse GM-CSF, Mouse IL-4)

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