

# CHAMOT

重组人巨噬细胞集落刺激因子 /Recombinant M-CSF,  
Human, Animal-Free

CM116-5HP



CM116-20HP



CM116-100HP



CM116-500HP



CM116-1000HP



CHAMOT

乔默®生物

Specialize In Cytokines

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## 重组人巨噬细胞集落刺激因子 /Recombinant M-CSF, Human, Animal-Free

产品编号	CM116-5HP	CM116-20HP	CM116-100HP	CM116-500HP	CM116-1000HP
规格	5 µg	20 µg	100 µg	500 µg	1 mg

### 产品简介

<b>背景描述</b>	Macrophage Colony Stimulating Factor (M-CSF) is a 18.54 kDa member of hematopoietic Growth Factors with 159 amino acid residues. M-CSF produced by osteoblasts and osteoblast precursors. M-CSF stimulates the growth and differentiation of the monocyte lineage, and promotes the survival, proliferation, and functions of mature monocytes/macrophages.
<b>别称</b>	macrophage colony stimulating factor, CSF-1, MGI-IM, CSF1
<b>蛋白编码</b>	P09603
<b>分子量</b>	The protein has a calculated MW of 13.34 kDa. The protein migrates as 13-26 kDa under reducing condition (SDS-PAGE analysis).
<b>表达系统</b>	Escherichia coli
<b>纯度</b>	>98% as determined by SDS-PAGE.
<b>生物活性</b>	Measure by its ability to induce proliferation in NFS-60 cells. The ED <sub>50</sub> for this effect is <1 ng/mL. The specific activity of recombinant human M-CSF is approximately >2.5x 10 <sup>8</sup> IU/mg.
<b>内毒素检测</b>	<0.1 EU per 1 µg of the protein by the LAL method.
<b>蛋白序列</b>	MEEVSEYCSHMGSGHLQLQLRQLIDSQMETSCQITFEFVDQEQQLKDPVCYLKKAFLVQDIME DTMRFRDNTPNAIAIVQLQELSLRLKSCFTKDYEEDKACVRTFYETPLQLLEKVKNVFNETKN LLDKDWNIFSKNCCNNSFAECSSSQGHERQSEGS with polyhistidine tag at the C-terminus.
<b>产品形式</b>	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.
<b>产品应用</b>	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

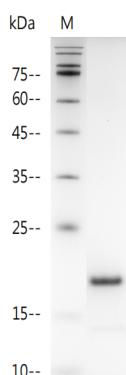
**Initial Reconstitution:** Store at 2°C to 8°C for up to 1 week.

**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

- Decoding the spatial chromatin organization and dynamic epigenetic landscapes of macrophage cells during differentiation and immune activation. *Nat Commun.* 2022 Oct 4;13(1):5857. (IF 14.919) (Human 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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