

# CHAMOT

**重组人粒细胞-巨噬细胞集落刺激因子 /Recombinant  
GM-CSF, Human, Animal-Free**

CM115-5HP

CM115-20HP

CM115-100HP

CM115-500HP

CM115-1000HP



CHAMOT

乔默®生物

*Specialize In Cytokines*

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

产品编号	CM115-5HP	CM115-20HP	CM115-100HP	CM115-500HP	CM115-1000HP
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-2

**蛋白编码** P04141

**分子量** The protein has a calculated MW of 15.4 kDa. The protein migrates as 15 kDa under reducing condition (SDS-PAGE analysis).

**表达系统** Escherichia coli

**纯度** >98% as determined by SDS-PAGE and SEC-HPLC.

**生物活性** Measure by its ability to induce TF-1 cells proliferation. The ED<sub>50</sub> for this effect is <80 pg/mL. The specific activity of recombinant human GM-CSF is approximately >1 x 10<sup>7</sup> IU/mg.

**内毒素检测** <0.1 EU per 1 µg of the protein by the LAL method.

**蛋白序列** APARSPSPSTQPWEHVNAIQEARLLNLSRDTAEMNETVEISEMFDLQEPTCLQTRLELYKQ GLRGS�TKLKGPLTMMASHYKQHCPTPETSCATQIITFESFKENLKDFLLVIPFDCWEPVQE 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 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

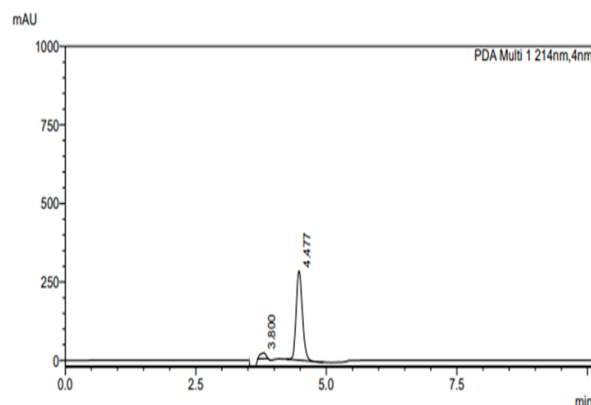
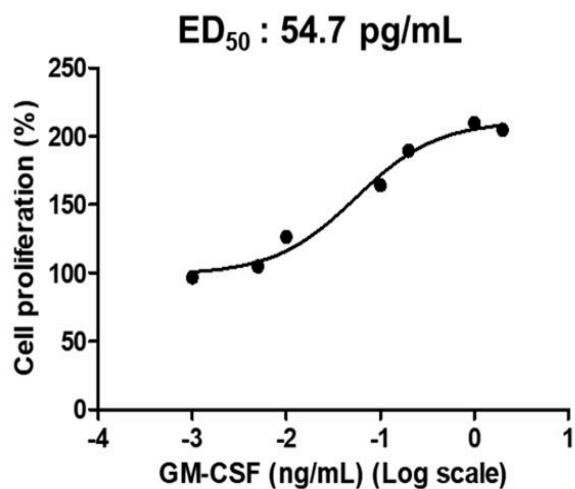
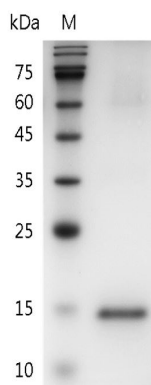
**Initial Reconstitution:** Store at 2°C to 8°C for up to 1 week.

**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



SDS-PAGE  
analysis of  
recombinant  
human GM-CSF

Human GM-CSF, His Tag, E. coli induced TF-1 cell  
proliferation, with the ED<sub>50</sub> at 54.7 pg/mL.

The purity of recombinant human GM-CSF is greater  
than 98% as determined by SEC-HPLC.

For Research Use or Further Manufacturing Only

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