

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 ED₅₀ for this effect is <80 pg/mL. The specific activity of recombinant human GM-CSF is approximately >1 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 APARSPSPSTQPWEHVNAIQEARLLNLSRDTAEMNETVEVISEMFDLQEPTCLQTRLELYKQ 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 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

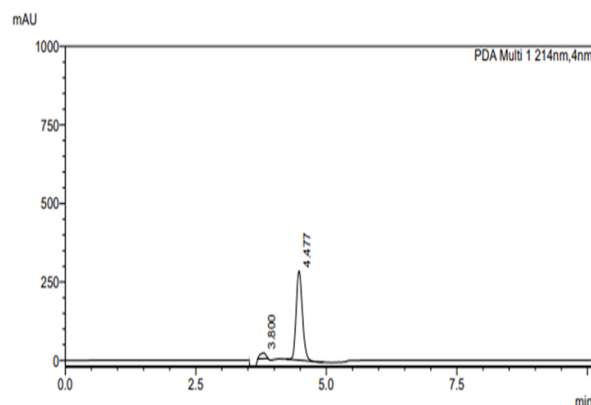
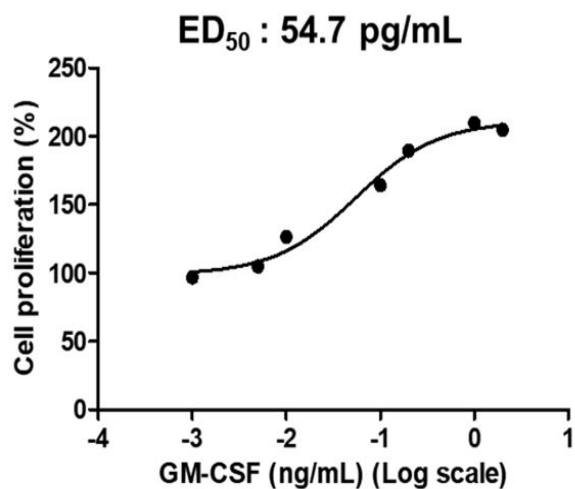
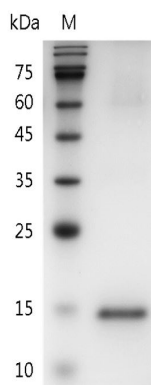
Initial Reconstitution: Store at 2°C to 8°C for up to 1 week.

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



SDS-PAGE
analysis of
recombinant
human GM-CSF

Human GM-CSF, His Tag, E. coli induced TF-1 cell
proliferation, with the ED₅₀ 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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