

CHAMOT

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

CM117-5HP

CM117-20HP

CM117-100HP

CM117-500HP

CM117-1000HP



CHAMOT

乔默®生物

Specialize In Cytokines

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产品编号	CM117-5HP	CM117-20HP	CM117-100HP	CM117-500HP	CM117-1000HP
规格	5 µg	20 µg	100 µg	500 µg	1 mg

产品简介

背景描述

Granulocyte colony-stimulating factor (G-CSF) is a member of the CSF family of glycoproteins and makes the bone marrow produce more white blood cells so it can reduce the risk of infection after some types of cancer treatment also is an established useful clinical agent for increasing neutrophilic granulocytes levels. G-CSF is a 18.67 kDa protein having 207 amino acid which secreted by monocytes, macrophages, fibroblasts, and endothelial cells, regulates cell growth, maturation, development of myeloid cells.

别称

granulocyte colony-stimulating factor, CSF-3, MGI-1G, pluripoietin, CSF3

蛋白编码

NP_757373

分子量

The protein has a calculated MW of 19.48 kDa. The protein migrates as 21kDa 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 <0.5 ng/mL.

内毒素检测

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

蛋白序列

TPLGPASSLPQSFLKCLEQVRKIQGDGAALQEKLCATYKLCHPEELVLLGHSLGIPWAPLSSCPS
QALQLAGCLSQLHSGFLYQGLLQALEGISPELGPTLDTLQLDVADFATTIWQQMEELGMAPAL
QPTQGAMPAFASAFQRRAGGVLVASHLQSFLEVSRYRVLRLHAQP 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

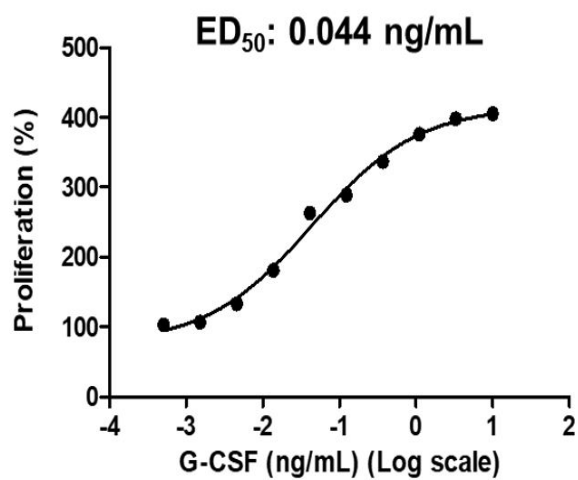
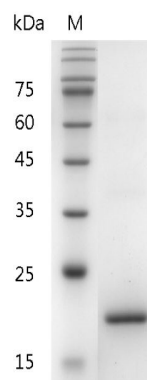
Initial Reconstitution: Store at 2°C to 8°C for up to 1 week.

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



SDS-PAGE analysis of recombinant human G-CSF

Human G-CSF, His Tag, E. coli induced NFS-60 cell proliferation,
with the ED₅₀ at 44 pg/mL.

For Research Use or Further Manufacturing Only

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