

CHAMOT

**重组小鼠干扰素gamma /Recombinant IFN gamma,
Mouse, Animal-Free**

CM052-20MP

CM052-100MP

CM052-500MP

CM052-1000MP



CHAMOT

乔默®生物

Specialize In Cytokines



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重组小鼠干扰素gamma /Recombinant IFN gamma, Mouse, Animal-Free

产品编号	CM052-20MP	CM052-100MP	CM052-500MP	CM052-1000MP
规格	20 µg	100 µg	500 µg	1 mg

产品简介

背景描述

The cytokine IFN gamma could protect cells from viral infections and belongs to the family of interferons. A lot of studies have shown that IFN gamma secreted by antigen triggered cell types, including T cells, naive CD4+ T cells, macrophages, dendritic cells, and B cells. IFN gamma plays an important role to trigger the macrophage act against a diverse group of microbial targets, and the pleiotropic molecule associated with antiproliferative, pro-apoptotic and antitumor mechanisms. Based on the effector cytokine considered as a major effector of immunity, it has been used in the treatment of several diseases.

别称

interferon gamma, Type II interferon, T-cell interferon, MAF, Ifg, If2f, IFN-g

蛋白编码

P01580

分子量

The protein has a calculated MW of 16.5 kDa. The protein migrates as 13-17 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 anti-viral assay in L-929 cells infected with encephalomyocarditis (EMC) virus. The ED₅₀ for this effect is <0.5 ng/mL. The specific activity of recombinant mouse IFN gamma is approximately >2x 10⁶ IU/mg.

内毒素检测

<0.01 EU per 1 µg of the protein by the LAL method.

蛋白序列

MHGTVIESLESNNYFNSSGIDVEEKSLFLDIWRNWQKDGDMKILQSQIISFYLRRLFVLKDNQ
AISNNISVIESHLITTFNSKAKKDAFMSIAKFEVNNPQVQRQAFNELIRVVHQLLPESLRKR
KRSRC with polyhistidine tag at the C-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

- Suppression of PD-L1 release from small extracellular vesicles promotes systemic anti-tumor immunity by targeting ORAI1 calcium channels. *J Extracell Vesicles*. 2022 Dec;11(12):e12279. (IF 15.48) (Mouse IFN- γ)
- IFN γ Transcribed by IRF1 in CD4 + Effector Memory T Cells Promotes Senescence-Associated Pulmonary Fibrosis. *Aging Dis*. 2023 Mar 23. (IF 9.968) (Mouse IFN- γ)
- Mesenchymal stromal cells regulate M1/M2 macrophage polarization in mice with immune thrombocytopenia. *Stem Cells Dev*. 2023 Nov;32(21-22):703-714. (IF 4)(Mouse IFN- γ)
- Activation of the HMGB1-TLR4 pathway impacts the functionality of bone marrow mesenchymal stem cells and disrupts macrophage polarization in immune thrombocytopenia. *Br J Haemato*. 2024 Aug 21. (IF 5.1)(Mouse IFN-gamma)
- Tmem30a Protects Against Podocyte Injury Through Suppression of Pyroptosis. *iScience*. 2024 May 14;27(6):109976.(IF 4.6)(Mouse IFN- γ)
- Integration of metabolomics and transcriptomics reveals the mechanism of TMEM30A downregulation induced FSGS podocyte injury. *Am J Physiol Renal Physiol*. 2025 Feb 5.(IF 3.7)(Mouse IFN- γ)

For Research Use or Further Manufacturing Only

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