

# 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 ED<sub>50</sub> for this effect is <0.5 ng/mL. The specific activity of recombinant mouse IFN gamma is approximately >2x 10<sup>6</sup> IU/mg.

#### 内毒素检测

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

#### 蛋白序列

MHGTVIESLES LN NYFNSSGIDVEEKSLFLDIWRNWQKDGDMKILQSQIISFYLRRLFV LKDNQ  
AISNNISVIESHLITTFFSNSKAKKDAFMSIAKFEVNNPQVQRQAFNELIRVVHQLLPESLRKR  
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 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

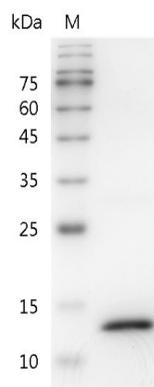
**Initial Reconstitution:** Store at 2°C to 8°C for up to 1 week.

**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



## 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- $\gamma$ )
- IFN $\gamma$  Transcribed by IRF1 in CD4 + Effector Memory T Cells Promotes Senescence-Associated Pulmonary Fibrosis. *Aging Dis*. 2023 Mar 23. (IF 9.968) (Mouse IFN- $\gamma$ )
- 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- $\gamma$ )
- 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- $\gamma$ )
- 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- $\gamma$ )

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