

# CHAMOT

**重组小鼠白细胞介素21 /Recombinant IL-21,  
Mouse, Animal-Free**

CM018-5MP

CM018-20MP

CM018-100MP

CM018-500MP

CM018-1000MP



CHAMOT

乔默®生物

*Specialize In Cytokines*

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## 重组小鼠白细胞介素21 /Recombinant IL-21, Mouse, Animal-Free

| 产品编号 | CM018-5MP | CM018-20MP | CM018-100MP | CM018-500MP | CM018-1000MP |
|------|-----------|------------|-------------|-------------|--------------|
| 规格   | 5 µg      | 20 µg      | 100 µg      | 500 µg      | 1 mg         |

### 产品简介

#### 背景描述

Interleukin-21 (IL-21) belongs to the IL-15/IL-21 family, which exerts pleiotropic immune regulations. IL-21 produced primarily by natural killer T (NKT) cells, T follicular helper (TFH) cells and TH17 cells. As a pleiotropic cytokine, IL-21 has been shown to regulate both innate and humoral immunity. It has potent inhibitory activity towards the activation and maturation of granulocyte-macrophage colony-stimulating factor (GM-CSF)-induced dendritic cells (DCs). In B cells, IL-21 has a major role in the development of immunoglobulin responses. In T cells, it is required to facilitate the functional differentiation of several CD4<sup>+</sup> T cell subsets. In addition, the ability of IL-21 to enhance the cytotoxic activity of both CD8<sup>+</sup> T cells and NK cells makes it as a potential antitumor agent.

#### 别称

interleukin 21, Za11, IL21

#### 蛋白编码

Q9ES17

#### 分子量

The protein has a calculated MW of 15.9 kDa. The protein migrates as 16 kDa under reducing condition (SDS-PAGE analysis).

#### 表达系统

Escherichia coli

#### 纯度

>95% as determined by SDS-PAGE.

#### 生物活性

Measure by its ability to enhance IFN gamma secretion in NK-92 cells. The ED<sub>50</sub> for this effect is <6 ng/mL. The specific activity of recombinant mouse IL-21 is > 1.6 x 10<sup>5</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

MHKSSPQGPDRLLIRLRLHLDIVEQLKIYENDLDPPELLSAPQDVKGHCHEAFAACFQKAKLKPS  
NPGNNKTFIIDLVAQLRRRLPARRGGKKQKHIACPCDSYEK RTPKEFLERLKWLLQKMIHQH  
LS with polyhistidine tag at the C-terminus.

#### 产品形式

The protein was lyophilized from a 0.2  $\mu\text{m}$  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  $\text{H}_2\text{O}$  to a concentration of 100-200  $\mu\text{g/mL}$ .
- 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  $\mu\text{g/mL}$ .

- Prepare aliquots ( $\geq 20 \mu\text{l}$ ).
- Store at -20°C or -80°C for 3 to 6 months.

**Avoid repeated freeze-thaw cycles.**

### 产品储存/运输

#### 储存

**Lyophilized Protein:** Store at -20°C for 1 year.

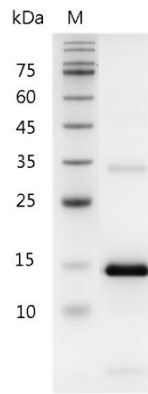
**Initial Reconstitution:** Store at 2°C to 8°C for up to 1 week.

**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 mouse IL-21

## 文献引用

- AIM2 deficiency in CD4<sup>+</sup> T cells promotes psoriasis-like inflammation by regulating Th17-Treg axis via AIM2-IKZF2 pathway. J Autoimmun. 2025 Jan;150:103351. (IF 7.0)(Human IL-6, TGF- $\beta$ , IL-12, IL-21, IL-2, IL-4, IL-1 $\beta$ , IL-23; Mouse IL-6, IL-21)

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