

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+ T cell subsets. In addition, the ability of IL-21 to enhance the cytotoxic activity of both CD8+ 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 ED₅₀ for this effect is <6 ng/mL. The specific activity of recombinant mouse IL-21 is > 1.6 x 10⁵ IU/mg.

内毒素检测

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

蛋白序列

MHKSSPQGPDRLLIRLRLHLDIVEQLKIYENDLDPPELLSAPQDVKGHCEHAACFQKAKLKPS
NPGNNKTFIIDLVAQLRRRLPARRGGKKQKHIACPCDSYEK RTPKEFLERLKWLLQKMIHQH
LS 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**储存**

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

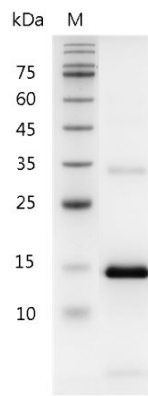
Initial Reconstitution: Store at 2°C to 8°C for up to 1 week.

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⁺ 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- β , IL-12, IL-21, IL-2, IL-4, IL-1 β , IL-23; Mouse IL-6, IL-21)

For Research Use or Further Manufacturing Only

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