

CHAMOT

**重组人白细胞介素21 /Recombinant IL-21, Human,
Animal-Free**

CM025-5HP

CM025-20HP

CM025-100HP

CM025-500HP

CM025-1000HP



CHAMOT

乔默®生物

Specialize In Cytokines

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重组人白细胞介素21 /Recombinant IL-21, Human, Animal-Free

产品编号	CM025-5HP	CM025-20HP	CM025-100HP	CM025-500HP	CM025-1000HP
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

Q9HBE4

分子量

The protein has a calculated MW of 16.2 kDa. The protein migrates as 20 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 <10 ng/mL.

内毒素检测

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

蛋白序列

MQDRHMIRMRLIDIVDQLKNYVNDLVPEFLPAPEDVETNCEWSAFSCFQKAQLKSANTGN
NERIINVSIIKKLRKPPSTNAGRRQKHRLTCPSCDSYEKKPPKEFLERFKSLLQKMIHQHLSSRT
HGSEDS 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 8.0. If you have any concerns or special requirements, please confirm with us.

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.

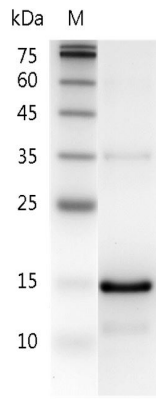
Initial Reconstitution: Store at 2°C to 8°C for up to 1 week.

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 human IL-21

文献引用

- Interferon- α regulates abnormally increased expression of RSAD2 in Th17 and Tfh cells in systemic lupus erythematosus patients. *Eur J Immunol.* 2023 May 13;e2350420. (IF 6.688) (Human IL-1 β , IL-6, IL-12, IL-21, IL-23, TGF- β)
- Abnormally high expression of D1-like dopamine receptors on lupus CD4+ T cells promotes Tfh cell differentiation. *Lupus Sci Med.* 2023; 10(2): e000943. (IF 3.9) (Human IL-6, TGF- β , IL-12, IL-21)
- 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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