

CHAMOT

重组小鼠白细胞介素2 /Recombinant IL-2, Mouse, Animal-Free

CM003-5MP



CM003-20MP



CM003-100MP



CM003-500MP



CM003-1000MP



CHAMOT

乔默®生物

Specialize In Cytokines

CONTENTS

1 产品简介

2 产品使用

3 产品储存/运输

4 实验数据展示

5 文献引用

重组小鼠白细胞介素2 /Recombinant IL-2, Mouse, Animal-Free

产品编号	CM003-5MP	CM003-20MP	CM003-100MP	CM003-500MP	CM003-1000MP
规格	5 µg	20 µg	100 µg	500 µg	1 mg

产品简介

背景描述

Interleukin-2 (IL-2) is a 18 kDa four bundle, immuno-modulatory cytokine which is expressed predominately by antigen-simulated CD4+ T cells, CD8+ T cells, natural killer (NK) cells, and dendritic cells (DC). IL-2 plays a fundamental role in promoting NK cell proliferation, cytotoxicity, and B cells differentiation. IL-2 modulate T cell differentiation programs, promoting naïve CD4+ T cell differentiation into T helper-1 (Th1) and T helper-2 (Th2) cells.

别称

interleukin 2, T-cell Growth Factor (TCGF), Aldesleukin, IL2

蛋白编码

P04351

分子量

The protein has a calculated MW of 18.2 kDa. The protein migrates as 18 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 induce CTLL-2 cells proliferation. The ED₅₀ for this effect is <6 ng/mL. The specific activity of recombinant mouse IL-2 is approximately >3 x 10⁶ IU/mg.

内毒素检测

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

蛋白序列

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

Avoid repeated freeze-thaw cycles.

产品储存/运输

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

储存

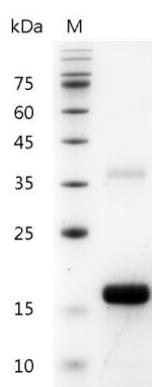
Initial Reconstitution: Store at 2°C to 8°C for up to 1 week.

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

- Decreased LDHB expression in breast tumor cells causes NK cell activation and promotes tumor progression. *Cancer Biol Med.* 2024 Mar 25;j.issn.2095-3941.2023.0382. (IF 6.35)(Mouse IL-2)
- Biomimetic artificial enveloped viral vectors: Overcoming immune barriers for re-administration and long-term gene therapy. *Cell Biomaterials.*, 100143, July 18, 2025. (Mouse IL-2)

For Research Use or Further Manufacturing Only

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