

# 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

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## 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 ED<sub>50</sub> for this effect is <15 ng/mL.

#### 内毒素检测

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

#### 蛋白序列

MAPTSSSTSSSTAEAQQQQQQQQQQHLEQLLMDLQELLSRMENYRNLKLPRLMTFKFY  
LPKQATELKDLCLEDELGPLRHVLDLTQSKSFQLEDAENFISNIRVTVVKLKGSDNTFECQFDD  
ESATVVDFLRRWIAFCQSIISTSPQ 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

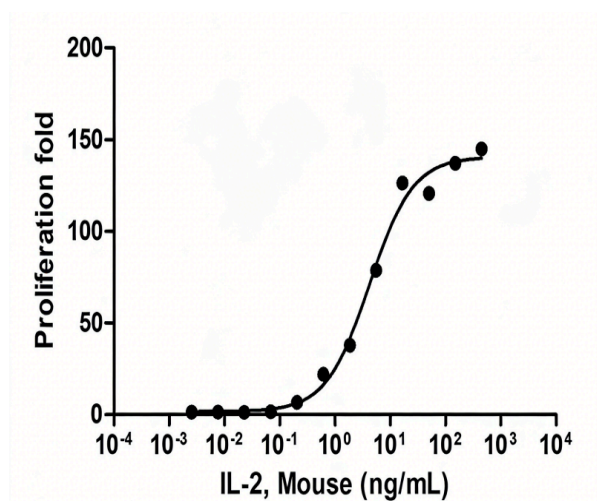
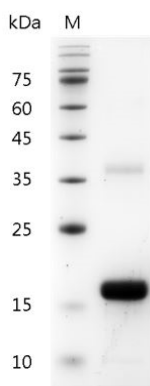
**Initial Reconstitution:** Store at 2°C to 8°C for up to 1 week.

**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



Activity analysis of recombinant Mouse IL-2, His Tag, E. coli.

SDS-PAGE analysis of recombinant mouse IL-2

Measure by its ability to induce proliferation in CTLL-2 cells. The

ED<sub>50</sub> for this effect is <15 ng/mL.

## 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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