

# CHAMOT

**重组人白细胞介素2 /Recombinant IL-2, Human,  
Animal-Free**

CM004-20HP

CM004-100HP

CM004-500HP

CM004-1000HP



CHAMOT

乔默®生物

*Specialize In Cytokines*

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## 重组人白细胞介素2 /Recombinant IL-2, Human, Animal-Free

产品编号	CM004-20HP	CM004-100HP	CM004-500HP	CM004-1000HP
规格	20 µg	100 µg	500 µg	1 mg

### 产品简介

#### 背景描述

Interleukin-2 (IL-2) is a 15.5 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

P60568

#### 分子量

The protein has a calculated MW of 16.4 kDa. The protein migrates as 13 kDa under reducing condition (SDS-PAGE analysis).

#### 表达系统

Escherichia coli

#### 纯度

>98% as determined by SDS-PAGE and SEC-HPLC.

#### 生物活性

Measure by its ability to induce proliferation in CTLL-2 cells. The ED<sub>50</sub> for this effect is <3 ng/mL. The specific activity of recombinant human IL-2 is >5 x 10<sup>6</sup> IU/mg.

#### 内毒素检测

<0.05 EU per 1 µg of the protein by the LAL method.

#### 蛋白序列

MAPTSSSTKKTQLQLEHLLLDLQMILNGINNYKNPKLTRMLTFKFYMPKKATELKHLQCLEEL  
KPLEEVLNLAQSKNFHLRPDLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFCQSIIST  
LT with polyhistidine tag at the C-terminus.

#### 产品形式

The protein was lyophilized from a 0.2 µm filtered solution containing NaPi buffer, 0.018% SDS, pH 7.5. 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

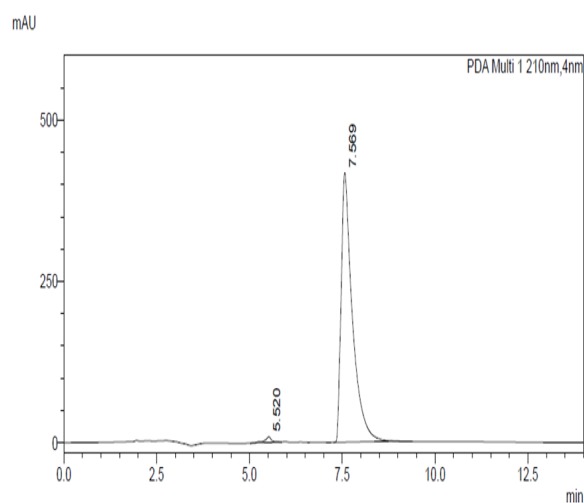
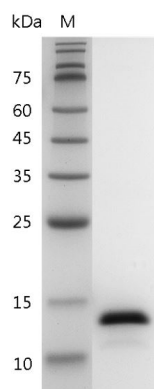
**Initial Reconstitution:** Store at 2°C to 8°C for up to 1 week.

**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



SDS-PAGE analysis of recombinant human IL-2

The purity of recombinant human IL-2 is greater than 98% as  
determined by SEC-HPLC.

## 文献引用

- AIM2 deficiency in CD4<sup>+</sup> T cells promotes psoriasis-like inflammation by regulating Th17-Treg axis via AIM2-IRF3 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)

For Research Use or Further Manufacturing Only

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