

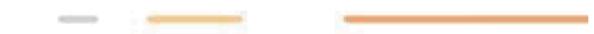
# CHAMOT

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

CM004-20HP



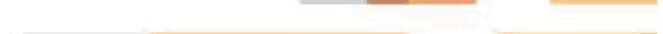
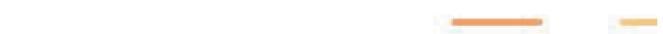
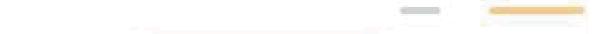
CM004-100HP



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 modulates T cell differentiation programs, promoting naïve CD4+ T cell differentiation into T helper-1 (Th1) and T helper-2 (Th2) cells.

|              |  |
|--------------|--|
| <b>别称</b>    | interleukin 2, T-cell Growth Factor (TCGF), Aldesleukin, IL2   |
| <b>蛋白编码</b>  | P60568   |
| <b>分子量</b>   | The protein has a calculated MW of 16.4 kDa. The protein migrates as 13 kDa under reducing condition (SDS-PAGE analysis).  |
| <b>表达系统</b>  | Escherichia coli   |
| <b>纯度</b>    | >98% as determined by SDS-PAGE and SEC-HPLC.   |
| <b>生物活性</b>  | 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. |
| <b>内毒素检测</b> | <0.05 EU per 1 µg of the protein by the LAL method.  |
| <b>蛋白序列</b>  | MAPTSSSTKKTQLQLEHLLDLQMILNGINNYKNPKLTRMLTFKFYMPKKATELKHLQCLEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLEKGSETTFMCEYADETATIVEFLNRWITFCQSIISTLT with polyhistidine tag at the C-terminus.                    |
| <b>产品形式</b>  | 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.                |
| <b>产品应用</b>  | 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 ( $\geq 20 \mu\text{l}$ ).
- 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.

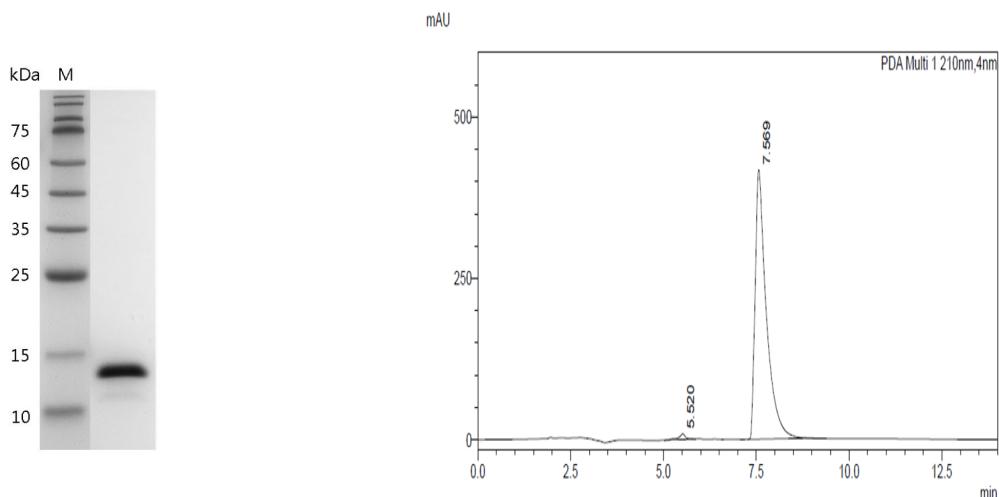
**储存** **Initial Reconstitution:** Store at 2°C to 8°C for up to 1 week.

**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

- 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- $\beta$ , 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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