

# CHAMOT

重组小鼠白细胞介素4 /Recombinant IL-4, Mouse, Animal-Free

CM005-5MP



CM005-20MP



CM005-100MP



CM005-500MP



CM005-1000MP



CHAMOT

乔默®生物

Specialize In Cytokines

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## 重组小鼠白细胞介素4 /Recombinant IL-4, Mouse, Animal-Free

产品编号	CM005-5MP	CM005-20MP	CM005-100MP	CM005-500MP	CM005-1000MP
规格	5 μg	20 μg	100 μg	500 μg	1 mg

### 产品简介

**背景描述** Interleukin-4 (IL-4) is a key cytokine produced by activated T cells, mast cells, basophils, neutrophils and eosinophils. IL-4 is critical for the development of Th2-mediated responses, which is related to allergy and asthma. It can also regulate B cell responses, including survival, cell proliferation and gene expression. IL-4 also plays fundamental role for B-cell stimulation, including induction of the IgE isotype switch.

<b>别称</b>	interleukin 4, BCGF, BCDF, B-cell Stimulating Factor (BSF-1), IL4
<b>蛋白编码</b>	P07750
<b>分子量</b>	The protein has a calculated MW of 14.5 kDa. The protein migrates as 14 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.
<b>生物活性</b>	Measure by its ability to induce HT-2 cells proliferation. The ED <sub>50</sub> for this effect is <1 ng/mL. The specific activity of recombinant mouse IL-4 is approximately >1 x 10 <sup>6</sup> IU/mg.
<b>内毒素检测</b>	<0.1 EU per 1 μg of the protein by the LAL method.
<b>蛋白序列</b>	MHIHGCDKNHLREIIGILNEVTGEGTPCTEMDPNVLTATKNTTESELVCRASKVLRIFYLKHGK TPCLKKNSSVLMELQRLFRAFRCLDSSISCTMNESKSTSLKDFLESLKSIMQMDYS 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 1X PBS, pH 7.4. 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

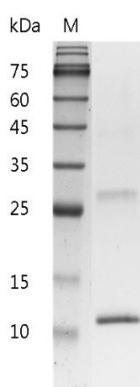
**Initial Reconstitution:** Store at 2°C to 8°C for up to 1 week.

**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

- Stigmasterol attenuates inflammatory response of microglia via NF-κB and NLRP3 signaling by AMPK activation. *Biomed Pharmacother.* 2022 Jun 27;153:113317. (IF 6.529)(Mouse IL-4)
- Oral microsphere formulation of M2 macrophage-mimetic Janus nanomotor for targeted therapy of ulcerative colitis. *Sci Adv.* 2024 Jun 28;10(26):eado6798. (IF 11.7)(Mouse IL-4)
- Oral *Saccharomyces cerevisiae*-Guided Enzyme Prodrug Therapy Combined with Immunotherapy for the Treatment of Orthotopic Colorectal Cancer. *ACS Nano.* 2024 Aug 27;18(34):23497-23507. (IF 15.8)(Mouse GM-CSF, Mouse IL-4)
- Harnessing microbial hydrogen for remodeling tumor microenvironment to potentiate collaborative chemo-immunotherapy. *Materials Today*, Volume 90, November 2025, Pages 52-67. (IF 22)(Mouse IL-4)
- Senescence Reprogramming Unleashes Tumor Immune Surveillance via Coordinated Gene Modulation. *Adv Mater.* 2025 Dec 1:e16597. (IF 26.8)(Mouse GM-CSF, Mouse IL-4)

For Research Use or Further Manufacturing Only

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