

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.

别称

interleukin 4, BCGF, BCDF, B-cell Stimulating Factor (BSF-1), IL4

蛋白编码

P07750

分子量

The protein has a calculated MW of 14.5 kDa. The protein migrates as 14 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 HT-2 cells proliferation. The ED₅₀ for this effect is <1 ng/mL. The specific activity of recombinant mouse IL-4 is approximately >1 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

MHIHGCDKNHLREIIGILNEVTGEGTPCTEMDVPNVLTATKNTTESELVCRASKVLRIFYLKHGKTPCLKKNSSVLMELQRLFRAFRCLDSSISCTMNESKSTSLKDFLESLKSIMQMDYS 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 (≥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

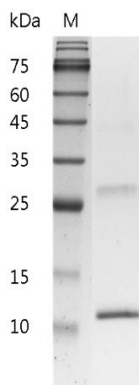
Initial Reconstitution: Store at 2°C to 8°C for up to 1 week.

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



文献引用

- Stigmasterol attenuates inflammatory response of microglia via NF- κ B 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. (IF11.7)(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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