

CHAMOT

**重组小鼠白细胞介素18 /Recombinant IL-18,
Mouse, Animal-Free**

CM016-5MP

CM016-20MP

CM016-100MP

CM016-500MP

CM016-1000MP



CHAMOT

乔默®生物

Specialize In Cytokines

CONTENT

1 产品简介

2 产品使用

3 产品储存/运输

4 实验数据展示

重组小鼠白细胞介素18 /Recombinant IL-18, Mouse, Animal-Free

产品编号	CM016-5MP	CM016-20MP	CM016-100MP	CM016-500MP	CM016-1000MP
规格	5 µg	20 µg	100 µg	500 µg	1 mg

产品简介

背景描述

Interleukin-18 (IL-18) belongs to the IL-1 superfamily and is constitutively produced by macrophages, dendritic cells (DCs) and other cells. IL-18 binds to the receptor of IL-18 (IL-18R) and initiate the recruitment and heterodimerization of the IL-18R α CP, leading to downstream activation of NF- κ B. After stimulation with IL-18, multiple cytokines including IFN- γ , IL-13, IL-4, IL-8, and GM-CSF and both Th1 and Th2 lymphokines could be produced by different cells. As an immunoregulatory cytokine, IL-18 can promote development of T helper 1 (Th1) cells, which maximizes the production of IFN by synergistically stimulating to mature Th1 effectors in combination with IL-12. On the contrary, it inhibits the production of the anti-inflammatory cytokine IL-10. In addition, IL-18 exhibits multiple proinflammatory functions, such as increases in cell adhesion molecules, nitric oxide synthesis, and chemokine production.

别称 interleukin 18, IGIF, IL-1g, IL1F4, IL18

蛋白编码 P70380

分子量 The protein has a calculated MW of 19.1 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 IFN gamma secretion in KG-1 cells. The ED₅₀ for this effect is <0.5 µg/mL.

内毒素检测 <0.1 EU per 1 µg of the protein by the LAL method.

蛋白序列 MNFGRLHCTTAVIRNINDQVLFVDKRQPVFEDMTDIDQSASEPQTRLIIYMYKDSEVRGLAVT LSVKDSKMSTLSCKNKIISFEEMDPENIDDIQSDLIFFQKRVPGHNKMEFESSLYEGHFLACQK EDDAFKLILKKKDENGDKSVMFTLTNLHQS 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 8.0. 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_2O to a concentration of 100-200 $\mu\text{g}/\text{mL}$.
- 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 $\mu\text{g}/\text{mL}$.

- 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

储存

Lyophilized Protein: Store at -20°C for 1 year.

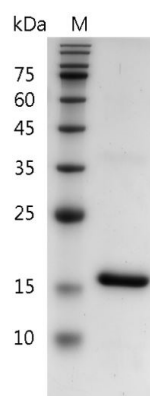
Initial Reconstitution: Store at 2°C to 8°C for up to 1 week.

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 mouse IL-18

For Research Use or Further Manufacturing Only

Chamot Biotechnology(Shanghai) Co., Ltd. www.chamot-bio.com

Tel: 021-51880030 Mail: info@chamot-bio.com QQ: 864920491