

# 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*

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## 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 $\alpha$ CP, leading to downstream activation of NF- $\kappa$ B. After stimulation with IL-18, multiple cytokines including IFN- $\gamma$ , 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 ED<sub>50</sub> 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

MNFGRLHCTTAVIRNINDQVLFDKRPVFEDMTDIDQSASEPQTRLIIYMYKDSEVRGLAVT  
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<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****储存**

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

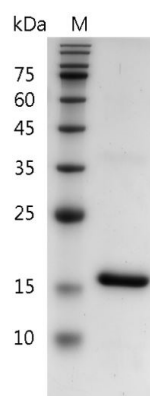
**Initial Reconstitution:** Store at 2°C to 8°C for up to 1 week.

**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

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