

# CHAMOT

**重组人白细胞介素18 /Recombinant IL-18, Human,  
Animal-Free**

CM022-5HP

CM022-20HP

CM022-100HP

CM022-500HP

CM022-1000HP



CHAMOT

乔默®生物

*Specialize In Cytokines*

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重组人白细胞介素18 /Recombinant IL-18, Human, Animal-Free

产品编号	CM022-5HP	CM022-20HP	CM022-100HP	CM022-500HP	CM022-1000HP
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-18Rα, leading to downstream activation of NF-κB. 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	Q14116
分子量	The protein has a calculated MW of 18.2 kDa. The protein migrates as 15 kDa under reducing condition (SDS-PAGE analysis).
表达系统	Escherichia coli
纯度	>95% 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 < 6 ng/mL. The specific activity of recombinant human IL-18 is > 1 x 10 <sup>7</sup> IU/mg.
内毒素检测	<0.1 EU per 1 µg of the protein by the LAL method.
蛋白序列	YFGKLESKLSVIRNLNDQVLFDQGNRPLFEDMTDSDCRDNAPRTIFIISMYKDSQPRGMAVTI SVKCEKISTLSCENKIISFKEMNPPDNIKDTKSDIIFQRSVPGHDNKMQFESSSYEGYFLACEKE RDLFKLILKKEDELGDRSIMFTVQNED

**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 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.

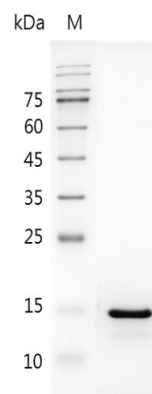
**Initial Reconstitution:** Store at 2°C to 8°C for up to 1 week.

**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 human IL-18

For Research Use or Further Manufacturing Only

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