

CHAMOT

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

CM022-100HPG

CM022-1000HPG



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, GMP

产品编号	CM022-100HPG	CM022-1000HPG
规格	100 ug	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 C β , 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

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

>97% as determined by SDS-PAGE analysis.

生物活性

Measure by its ability to induce IFN gamma secretion in KG-1 cells. The ED₅₀ for this effect is <6 ng/mL. The specific activity of recombinant human IL-18 GMP is > 1 x 10⁷ IU/mg, which is calibrated against the human IL-18 WHO Reference Reagent (NIBSC code: 03/200).

内毒素检测

<0.05 EU per 1 μ g of the protein by the LAL method.

蛋白序列

YFGKLESKLSVIRNLNDQVLFIDQGNRPLFEDMTDSDCRDNAPRTIFIISMYKDSQPRGMAVTI
SVKCEKISTLSCENKIISFKEMNPPDNIKDTKSDIIFQRSVPGHDNKMQFESSSYEGYFLACEKE
RDLFKLILKKEDELGDRSIMFTVQNED

支原体

Not detected

产品形式 Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.

产品应用 Cell Culture

产品使用

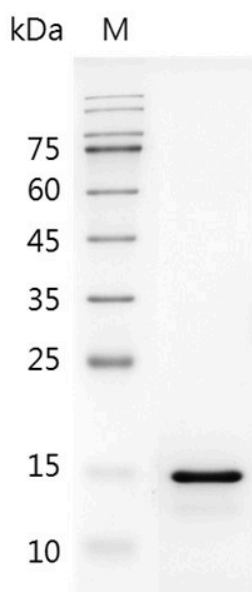
Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H_2O to a concentration not less than 0.5 mg/mL and incubate the stock solution at RT for at least 20 min to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

产品储存/运输

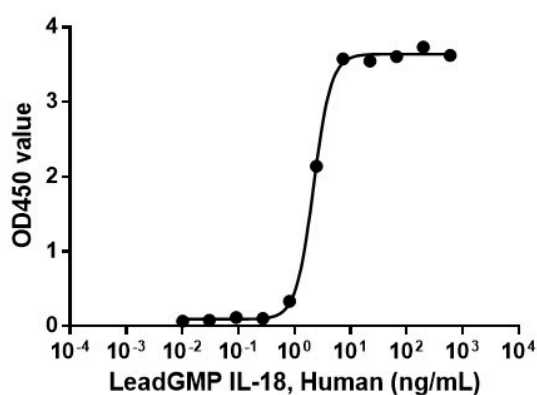
储存 Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

运输 Blue Ice

实验数据展示



SDS- PAGE analysis of GMP human IL-18



GMP Human IL-18 Protein, Tag Free, E. coli induces IFN gamma secretion in KG-1 cells, with the $\text{ED}_{50} < 6 \text{ ng/mL}$.

For Research Use or Further Manufacturing Only

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