

CHAMOT

重组人白细胞介素10 /Recombinant IL-10, Human, Animal-Free

CM012-5HP



CM012-20HP



CM012-100HP



CM012-500HP



CM012-1000HP



CHAMOT

乔默®生物

Specialize In Cytokines

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实验数据展示

重组人白细胞介素10 /Recombinant IL-10, Human, Animal-Free

产品编号	CM012-5HP	CM012-20HP	CM012-100HP	CM012-500HP	CM012-1000HP
规格	5 µg	20 µg	100 µg	500 µg	1 mg

产品简介

背景描述

Interleukin-10 (IL-10), also known as human cytokine synthesis inhibitory factor (CSIF), is an anti-inflammatory cytokine. Many different types of cells can produce IL-10, including immune cells and non-immune cells. IL-10 exerts inhibitory functions on DCs and macrophages, which is a potent inhibitor of antigen presentation and limit the production of the Th1-associated cytokines IL-2 and interferon- γ (IFN- γ). IL-10 is also a key immunoregulator during infection due to its inhibitory effect on inflammatory cytokine production. Consequently, the excessive Th1 and CD8+ T cell responses could be suppressed during infection.

别称

interleukin 10, B-TCGF, CSIF, TGIF, IL10

蛋白编码

P22301

分子量

The protein has a calculated MW of 19.6 kDa. The protein migrates as 20 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 MC/9-2 cells proliferation. The ED₅₀ for this effect is <1 ng/mL. The specific activity of recombinant human IL-10 is approximately >1x10⁶ IU/ mg.

内毒素检测

<0.01 EU per 1 µg of the protein by the LAL method.

蛋白序列

MSPGQGTQSENSCTHFPGNLPNMLRDLRDAFSRVKTFQMKDQLDNLLKESLLEDFKGYLG
 CQALSEMIQFYLEEVMPQAENQDPDIKAHVNSLGENLKTLLRRLRRCHRFPLCENKS KAVEQV
 KNAFNKLQEKGIVYKAMSEFDIFINYIEAYMTMKIRN 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 ($\geq 20 \mu\text{l}$).
- Store at -20°C or -80°C for 3 to 6 months.

Avoid repeated freeze-thaw cycles.

产品储存/运输

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

储存

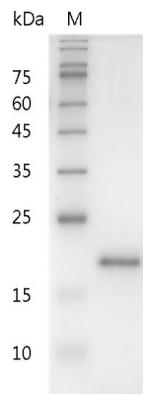
Initial Reconstitution: Store at 2°C to 8°C for up to 1 week.

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



SDS-PAGE analysis of recombinant human IL-10

For Research Use or Further Manufacturing Only

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