

CHAMOT

**重组人白细胞介素12 p35 /Recombinant IL-12 p35,
Human, Animal-Free**

CM014-5HP

CM014-20HP

CM014-100HP

CM014-500HP

CM014-1000HP



CHAMOT

乔默®生物

Specialize In Cytokines

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重组人白细胞介素12 p35 /Recombinant IL-12 p35, Human, Animal-Free

产品编号	CM014-5HP	CM014-20HP	CM014-100HP	CM014-500HP	CM014-1000HP
规格	5 µg	20 µg	100 µg	500 µg	1 mg

产品简介

背景描述

Interleukin 12 (IL-12) is a pro-inflammatory cytokine with a molecular weight of 70 kDa composed of two subunits, IL-12p35 (35 kDa) and IL-12p40 (40 kDa), and IL-12p35 as a p35-p35 homodimer with 57 kDa molecular weight and a p35 monomer of 27 kDa molecular weight. The p35 molecule is unique to IL-12, while p40 is shared by both IL-12 and IL-23. IL-12 promotes Th1 T cell responses, while IL-23 promotes Th17 T cell responses.

别称

interleukin 12 p35, Interleukin-12 subunit alpha, IL-12 subunit p35, IL-12A, Cytotoxic Lymphocyte Maturation Factor 35 kDa, IL12, IL-12

蛋白编码

P29459

分子量

The protein has a calculated MW of 23.48 kDa. The protein migrates as 28 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

Measured in a cell proliferation assay using PHA-activated human peripheral blood lymphocytes (PBMC). The ED₅₀ for this effect is <49 pg/mL.

内毒素检测

<0.1 EU per 1 µg of the protein by the LAL method.

蛋白序列

MRNLPVATPDPGMFPCLLHHSQNLLRAVSNNMLQKARQTLEFYPTCTSEEDHEDITKDKTSTVEACLPLELTKNESCLNSRETSFITNGSCLASRKTSFMMALCLSSIEDLKMYQVEFKTMNAKLLMDPKRQIFLDQNMLAVIDELMQALNFNSETVPQKSSLEEPDFYKTKIKLCILLHAFRIRAVTIDRVM SYLNAS 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 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.

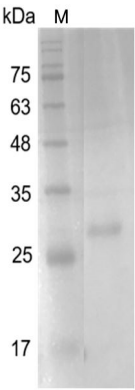
3. Extended Storage

- 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 (≥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



文献引用

- Abnormally high expression of D1-like dopamine receptors on lupus CD4+ T cells promotes Tfh cell differentiation. *Lupus Sci Med.* 2023; 10(2): e000943. (IF 3.9) (Human IL-6, TGF- β , IL-12, IL-21)
- AIM2 deficiency in CD4+ T cells promotes psoriasis-like inflammation by regulating Th17-Treg axis via AIM2-IKZF2 pathway. *J Autoimmun.* 2025 Jan;150:103351. (IF 7.0)(Human IL-6, TGF- β , IL-12, IL-21, IL-2, IL-4, IL-1 β , IL-23; Mouse IL-6, IL-21)

For Research Use or Further Manufacturing Only

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