

CHAMOT

**重组人白细胞介素12 p70 /Recombinant IL-12 p70,
Human, Animal-Free**

CM182-5HP

CM182-20HP

CM182-100HP

CM182-500HP

CM182-1000HP



CHAMOT

乔默®生物

Specialize In Cytokines



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重组人白细胞介素12 p70 /Recombinant IL-12 p70, Human, Animal-Free

产品编号	CM182-5HP	CM182-20HP	CM182-100HP	CM182-500HP	CM182-1000HP
规格	5 µg	20 µg	100 µg	500 µg	1 mg

产品简介

背景描述

Interleukin 12 p70 (IL-12 p70) is an interleukin which is major secreted from immune cells like dendritic cells, macrophages and neutrophils. IL-12 p70 is a 58.5 kDa protein containing 527 amino acid residues which is composed by two subunits (IL-12 p35 and IL-12 p40). IL-12 p70 induces the cytotoxic activity of immune cells like NK cells and T cells. IL-12 p70 binds its receptor (IL-12Rβ1 and IL-12Rβ2) that activates the Jak/STAT signaling pathway. IL-12 p70 also plays an important role in cancer model which inhibits the formation of new blood vessels through the production of IFN γ.

别称

interleukin 12 p70, Interleukin-12, NKSF, Cytotoxic Lymphocyte Maturation Factor (CLMF), TSF, IL12, IL-12

蛋白编码

P29459(p35), P29460(p40)

分子量

The protein has a calculated MW of 59.55 kDa. The protein migrates as 63-75 kDa under reducing condition (SDS-PAGE analysis).

表达系统

HEK293

纯度

>98% as determined by SDS-PAGE.

生物活性

Measure by its ability to induce IFN gamma secretion in PHA-activated human peripheral blood lymphocytes (PBMC). The ED₅₀ for this effect is 0.05-0.2 ng/mL.

内毒素检测

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

蛋白序列

IWELKKDVYVVELDWYPDAPGEMVVLTCDTPEEDGITWTLDQSSEVLGSGKTLTIQVKEFGDA
GQYTCHKGGEVLSHSLLLHKKEDGIWSTDILKDQKEPKNTFLRCEAKNYSGRFTCWWTLTIS
TDLTFSVKSSRGSSDPQGVTCGAATLSAERVGRDNKEYEYSVEQCEDSACPAAEESLPIEVMVD
AVHKLKYENYTSSFFIRDIIKPDPPKNLQLKPLKNSRQVEVSWEYPDTWSTPHSYFSLTFCVQV
QGKSKREKKDRVFTDKTSATVICRKNASISVRAQDRYSSSWSEWASVPCSGSTSGSGKPGSG
EGSTKGRNLPVATPDPGMFCLHHSQNLLRAVSNMLQKARQTLEFYPTCTSEEIDHEDITKDKT
STVEACLPLELTKNESCLNSRETSFITNGSCLASRKTSFMMALCLSSIYEDLKMYQVEFKTMNAK

LLMDPKRQIFLDQNMLAVIDELMQALNFNSETVPQKSSLEEPDFYKTKIKLCILLHAFRIRAVTI
DRVMSYLNASHHHHHH 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 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 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.

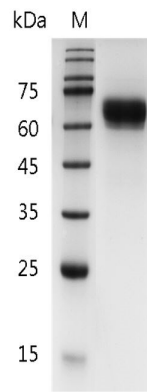
Initial Reconstitution: Store at 2°C to 8°C for up to 1 week.

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



SDS-PAGE analysis of recombinant human IL-12 p70

文献引用

- Interferon- α regulates abnormally increased expression of RSAD2 in Th17 and Tfh cells in systemic lupus erythematosus patients. *Eur J Immunol.* 2023 May 13;e2350420. (IF 6.688) (Human IL-1 β , IL-6, IL-12, IL-21, IL-23, TGF- β)

For Research Use or Further Manufacturing Only

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