

CHAMOT

重组人白细胞介素21 / Recombinant IL-21, Human, GMP

CM025-100HPG

CM025-1000HPG



CHAMOT

乔默®生物

Specialize In Cytokines

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重组人白细胞介素21 / Recombinant IL-21, Human, GMP

产品编号	规格
CM025-100HPG	100 ug
CM025-1000HPG	1 mg

产品简介**背景描述**

Interleukin-21 (IL-21) belongs to the IL-15/IL-21 family, which exerts pleiotropic immune regulations. IL-21 produced primarily by natural killer T (NKT) cells, T follicular helper (TFH) cells and TH17 cells. As a pleiotropic cytokine, IL-21 has been shown to regulate both innate and humoral immunity. It has potent inhibitory activity towards the activation and maturation of granulocyte-macrophage colony-stimulating factor (GM-CSF)-induced dendritic cells (DCs). In B cells, IL-21 has a major role in the development of immunoglobulin responses. In T cells, it is required to facilitate the functional differentiation of several CD4⁺ T cell subsets. In addition, the ability of IL-21 to enhance the cytotoxic activity of both CD8⁺ T cells and NK cells makes it as a potential antitumor agent.

别称

interleukin 21, Za11, IL21

蛋白编码

Q9HBE4

分子量

The protein has a calculated MW of 16.2 kDa. The protein migrates as 20 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 enhance IFN gamma secretion in NK-92 cells. The ED₅₀ for this effect is <10 ng/mL.

内毒素检测

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

蛋白序列

MQDRHMIRMRLIDIVDQLKNYVNDLVPEFLPAPEDVETNCEWSAFSCFQKAQLKSANTGNNERIINVSIIKKLK
RKPPSTNAGRQKHRLTCPSCDSYEKKPPKEFLERFKSLLQKMIHQHLSRTHGSEDS with polyhistidine tag at the
C-terminus.

支原体

Not detected

产品形式

Lyophilized from a 0.2 µm filtered solution of PBS, pH 8.0.

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 H₂O 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

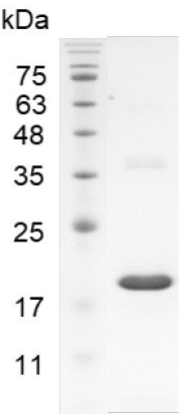
储存

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.

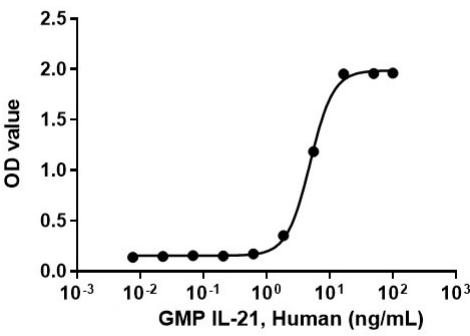
运输

Blue Ice

实验数据展示



SDS- PAGE analysis ofGMP human IL-21



GMP Human IL-21 Protein, His Tag, E. coli enhances IFN gamma secretion in NK-92 cells, with the ED₅₀ <10 ng/mL