



雷公藤内酯醇对人Th17细胞分化的调节作用

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中文摘要:目的:研究雷公藤内酯醇对体外培养的人Th17细胞分化的调节作用。方法:在体外将不同浓度雷公藤内酯醇作用于人外周血单一核细胞,纯化的CD4⁺T细胞和CD4⁺CD45RA⁺记忆性T细胞,采用MTT法检测淋巴细胞增殖,流式细胞术分析单个细胞内表达IL-17和IFN- γ 的频数,ELISA法测定细胞分泌IL-17和IFN- γ 的水平。结果:雷公藤内酯醇以剂量依赖的方式抑制淋巴细胞增殖,细胞内IL-17的表达频数和细胞产生IL-17的水平。此外,雷公藤内酯醇对细胞内IFN- γ 的表达和产生也有抑制作用。结论:雷公藤内酯醇可抑制人Th17细胞的分化,这可能是雷公藤内酯醇免疫抑制和抗炎作用的机制之一。

中文关键词:雷公藤内酯醇 Th17细胞 IFN- γ

Modulatory effect of triptolide on differentiation of human Th17 cells

Abstract:Objective: To investigate the effect of triptolide on the differentiation of human Th17 cells. Method: Human peripheral blood mononuclear cells, purified CD4⁺T cells and CD4⁺CD45RA⁺ memory T cells were treated with various concentrations of triptolide *in vitro*. Cell proliferation was determined by MTT assay. Flow cytometry was used to analyze the intracellular expression of IL-17 and IFN- γ . Cytokine production of IL-17 and IFN- γ was measured by ELISA. Result: Cell proliferation, intracellular expression of IL-17 and IL-17 secretion were inhibited by triptolide in a dose-dependent manner. IFN- γ expression and production were also inhibited by triptolide. Conclusion: Triptolide inhibits the differentiation of human Th17 cell. The observation may indicate at least one of the mechanisms of the immunosuppressive and anti-inflammatory effects of triptolide.

keywords: triptolide Th17 cell IFN- γ

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