

[本期目录](#) | [下期目录](#) | [过刊浏览](#) | [高级检索](#)[\[打印本页\]](#) [\[关闭\]](#)**论文****人参皂苷-Ro促进小鼠脾细胞增殖及调节小鼠脾细胞Th1/Th2细胞因子的产生**

于君丽;窦德强;陈晓红;杨红振;胡晓燕;程桂芳

1. 中国医学科学院、中国协和医科大学 药物研究所, 北京 100050; 2. 沈阳药科大学 天然产物化学教研室, 辽宁 沈阳 110001

摘要:

目的研究人参皂苷-Ro对小鼠脾细胞增殖及细胞因子产生的影响。方法 [^3H] TdR参入法检测人参皂苷-Ro对小鼠脾淋巴细胞增殖的影响; 酶联免疫吸附法检测人参皂苷-Ro对小鼠脾淋巴细胞产生细胞因子白介素-2、干扰素- γ 和白介素-4的影响; 逆转录聚合酶链式反应分析法研究人参皂苷-Ro对小鼠脾淋巴细胞中干扰素- γ 、白介素-4 mRNA表达的影响。结果人参皂苷-Ro在 $1\text{-}10 \mu\text{mol}\cdot\text{L}^{-1}$ 显著促进Con A诱导的小鼠脾淋巴细胞增殖及小鼠脾淋巴细胞白介素-2的产生; 在 $2\text{-}10 \mu\text{mol}\cdot\text{L}^{-1}$ 促进Con A诱导的小鼠脾淋巴细胞产生和表达Th2细胞因子白介素-4, 而降低Con A诱导的小鼠脾淋巴细胞产生和表达Th1细胞因子干扰素- γ 。结论人参皂苷-Ro通过调节脾细胞内Th1型和Th2型细胞因子的转录和表达发挥免疫调节作用。

关键词: 人参皂苷-Ro 白介素-2 白介素-4 干扰素- γ 脾细胞**Ginsenoside-Ro enhances cell proliferation and modulates Th1/Th2 cytokines production in murine splenocytes**

YU Jun-li; DOU De-qiang; CHEN Xiao-hong; YANG Hong-zhen; HU Xiao-yan; CHENG Gui-fang

Abstract:

Aim To study the effects of ginsenoside-Ro on cell proliferation and cytokine production in murine splenocytes. **Methods** The effect of ginsenoside-Ro on murine splenocytes proliferation was studied using [^3H] thymidine incorporation assay. Effects of ginsenoside-Ro on the production of cytokines interleukin-2 (IL-2), interferon- γ (IFN- γ) and interleukin-4 (IL-4) from murine splenocytes were detected by ELISA method. Effects of ginsenoside-Ro on mRNA level of Th1 cytokine IFN- γ and Th2 cytokine IL-4 were evaluated by reverse transcription polymerase chain reaction (RT-PCR) analysis.

Results Ginsenoside-Ro showed no mitogenic effect on unstimulated murine splenocytes. It enhanced the proliferation of Con A-induced murine splenocytes and the production of IL-2 at concentrations of $1\text{-}10 \mu\text{mol}\cdot\text{L}^{-1}$. Moreover, ginsenoside-Ro increased the production and expression of Th2 cytokine IL-4 and decreased the production and expression of Th1 cytokine IFN- γ in Con A-induced murine splenocytes at concentrations of $2\text{-}10 \mu\text{mol}\cdot\text{L}^{-1}$. **Conclusion** Ginsenoside-Ro showed immunomodulatory effects by regulating the production and expression of Th1/Th2 cytokines in murine splenocytes.

Keywords: IL-2 IL-4 IFN- γ splenocytes ginsenoside-Ro

收稿日期 2004-07-08 修回日期 网络版发布日期

DOI:

基金项目:

通讯作者: CHENG Gui-fang

作者简介:

参考文献:

扩展功能**本文信息**

▶ Supporting info

▶ PDF(262KB)

▶ [HTML全文]

▶ 参考文献

服务与反馈

▶ 把本文推荐给朋友

▶ 加入我的书架

▶ 加入引用管理器

▶ 引用本文

▶ Email Alert

▶ 文章反馈

▶ 浏览反馈信息

本文关键词相关文章

▶ 人参皂苷-Ro

▶ 白介素-2

▶ 白介素-4

▶ 干扰素- γ

▶ 脾细胞

本文作者相关文章

▶ 于君丽

▶ 窦德强

▶ 陈晓红

▶ 杨红振

▶ 胡晓燕

▶ 程桂芳

PubMed

▶ Article by

| | | | |
|------|----------------------|------|----------------------------------|
| 反馈人 | <input type="text"/> | 邮箱地址 | <input type="text"/> |
| 反馈标题 | <input type="text"/> | 验证码 | <input type="text"/> 5875 |