

论文

雷公藤红素对IL-1和IL-2活性及PGE<sub>2</sub>释放的抑制作用

徐维敏;张罗修;程彰华;蔡为众;缪红华;潘德济

上海医科大学药学院,上海200032; \*本校86级夜大学毕业生; \*\*本校85级药理专业毕业生

摘要:

雷公藤红素0.1~1.0μg/ml在试管内能降低LPS诱导的小鼠腹腔巨噬细胞外和细胞内白细胞介素-1(IL-1)的活性,也能抑制ConA诱导的小鼠脾细胞产生白细胞介素-2(IL-2).动态观察表明,雷公藤红素经预处理8h和3h后已能分别抑制IL-1和IL-2的产生。此外,雷公藤红素能降低A23187刺激家兔滑膜细胞释放前列腺素E<sub>2</sub>(PGE<sub>2</sub>)。

关键词: 雷公藤红素 白细胞介素-1 白细胞介素-2 滑膜细胞 前列腺素E<sub>2</sub>

INHIBITORY EFFECT OF TRIPTERINE ON ACTIVITIES OF IL-1, IL-2 AND RELEASE OF PGE<sub>2</sub>

WM Xu; LX Zhang; ZH Cheng; WZ Cai; HH Miao and DJ Pan

Abstract:

Tripterine is one of the components isolated from *Tripterygium wilfordii* Hook. Previous studies demonstrated that tripterine inhibited not only humoral and cellular immune responses but also some inflammatory responses. The present investigation attempted to observe effect of the drug on productions of IL-1 from macrophages, IL-2 from splenocytes and PGE<sub>2</sub> from synovial cells. The results showed that tripterine (0.1 ~ 1.0μg/ml) significantly inhibited IL-1 activity of murine peritoneal macrophages induced by LPS. Because both intracellular and extracellular IL-1 activities were decreased, so tripterine might be able to reduce the production and release of IL-1. Besides, inhibition of IL-1 production was observed when macrophages were pretreated with the drug for 8 h and 16 h. A good relationship was found between the effect and concentration of tripterine which inhibited IL-2 production from ConA-activated murine splenocytes. Kinetic study indicated that IL-2 production was decreased when splenocytes were pretreated with the drug for 3 h, 6h and 12 h. Synovial cells obtained from rabbit knee joint were cultured successfully. A23187 was found to augment PGE<sub>2</sub> synthesis modestly. Tripterine significantly reduced PGE<sub>2</sub> release from synovial cells in a concentration dependent manner.

Keywords: Interleukin-1 Interleukin-2 Synovial cells Prostaglandin E<sub>2</sub> Tripterine

收稿日期 1990-09-18 修回日期 网络版发布日期

DOI:

基金项目:

通讯作者:

作者简介:

参考文献:

本刊中的类似文章

1. 张罗修;余方考;郑秋影;方震;潘德济.雷公藤红素抑制抗体形成及抗炎作用[J]. 药学报, 1990,25(8): 573-577

扩展功能

本文信息

- ▶ Supporting info
- ▶ PDF(158KB)
- ▶ [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

- ▶ 雷公藤红素
- ▶ 白细胞介素-1
- ▶ 白细胞介素-2
- ▶ 滑膜细胞
- ▶ 前列腺素E<sub>2</sub>

本文作者相关文章

- ▶ 徐维敏
- ▶ 张罗修
- ▶ 程彰华
- ▶ 蔡为众
- ▶ 缪红华
- ▶ 潘德济

PubMed

- ▶ Article by
- ▶ Article by
- ▶ Article by
- ▶ Article by
- ▶ Article by
- ▶ Article by

文章评论 (请注意:本站实行文责自负, 请不要发表与学术无关的内容!评论内容不代表本站观点.)

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"/> 6018

Copyright 2008 by 药学报