

论文

苦参碱对纤维蛋白纤维蛋白原降解产物诱导血管细胞损伤、增殖及腹腔巨噬细胞释放IL-1的影响

周斌;胡振林;张俊平;钱定华

第二军医大学药学院药理教研室, 上海 200433

摘要:

目的: 研究苦参碱(Mat)对纤维蛋白纤维蛋白原降解产物(FFDP)作用的影响。 方法: 大鼠主动脉内皮细胞损伤以乳酸脱氢酶释放测定; 大鼠主动脉平滑肌细胞增殖采用结晶紫染色法测定; 白细胞介素-1活性采用小鼠胸腺细胞增殖法测定。结果: FFDP能促进大鼠主动脉内皮细胞释放乳酸脱氢酶, 诱导大鼠主动脉平滑肌细胞增殖, 并促使小鼠腹腔巨噬细胞分泌IL-1增加。结论: Mat可抑制FFDP的作用。对动脉粥样硬化的防治可能有一定意义。

关键词: 纤维蛋白纤维蛋白原降解产物(FFDP); 苦参碱; 白细胞介素-1(IL-1); 平滑肌细胞; 内皮细胞; 腹腔巨噬细胞

EFFECTS OF MATRINE ON THE INJURY AND PROLI FERATION OF VASCULAR CELLS AND RELEASE OF INTERLEUKIN-1 ROM PERITONEAL MACROPHAGES CAUSED BY FIBRIN FIBRINOGEN DEGRADATI ON PRODUCTS

Zhou Bin; Hu Zhenlin; Zhang Junping and Qian Dinghua

Abstract:

AIM: To study the effects of matrine on rat aortic endothelial cell injury, rat aortic smooth cell proliferation and release of interleukin-1 from mouse peritoneal macrophages induced by fibrin fibrinogen degradation products(FFDP). METHODS: Rat aortic endothelial cell injury was assayed by lactic dehydrogenase release. Rat aortic smooth muscle cell proliferation was determined by crystal violet staining assay. Interleukin-1 activity was measured by mouse thymocyte proliferation assay. RESULTS: Fibrin fibrinogen degradation products significantly increased the lactic dehydrogenase release from rat aortic endothelial cells, proliferation of rat aortic smooth muscle cells and release of interleukin-1 from mouse peritoneal macrophages. Matrine exerted inhibitory effects on the action of fibrin fibrinogen degradation products. CONCLUSION: Fibrin fibrinogen degradation products may play an important role in atherosclerosis plaque formation, and matrine has protective effects against the atherosclerotic injury.

Keywords: matrine interleukin-1 endothelial cell smooth muscle cell peritoneal macrophage fibrin fibrinogen degradation products

收稿日期 1998-08-03 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

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.)

扩展功能

本文信息

- ▶ Supporting info
- ▶ PDF(439KB)
- ▶ [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

- ▶ 纤维蛋白纤维蛋白原降解产物(FFDP); 苦参碱; 白细胞介素-1(IL-1); 平滑肌细胞; 内皮细胞; 腹腔巨噬细胞

本文作者相关文章

- ▶ 周斌
- ▶ 胡振林
- ▶ 张俊平
- ▶ 钱定华

PubMed

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

反  
馈  
人

邮箱地址

反馈  
标题

验证码

5888