本期目录 | 下期目录 | 过刊浏览 | 高级检索

[打印本页] [关闭]

论文

重组人胸腺素α原体外对IFN-γ,IFN-α及TNF-α的影响

邱磊;郭葆玉;苗红;道书艳;张冉;袁鹏群;杨旭

第二军医大学药学院生化药学教研室, 上海 200433

摘要:

目的体外观察重组人胸腺素α原(prothymosin a,Pro Ta)对几种重要细胞因子分泌的影响。方法用脾淋巴细胞、脾巨噬细胞及腹腔巨噬细胞,以ELISA法检测Pro Ta对IFN-γ,IFN-α和TNF-α分泌的影响。结果1×10⁻⁷ mol·L⁻¹ Pro Ta明显促进脾细胞分泌IFN-γ(*P*<0.05),该浓度的Pro Ta也明显刺激小鼠脾巨噬细胞分泌IFN-α(*P*<0.01);在小鼠腹腔巨噬细胞中,Pro Ta能明显刺激IFN-α和TNF-α的分泌(*P*<0.01)。结论Pro Ta对细胞因子IFN-γ,IFN-α和TNF-α的分泌均有促进作用。

关键词: 胸腺素a原 免疫调节 细胞因子

EFFECT OF RECOMBINANT PROTHYMOSIN **a** ON SECRETION OF IFN-**γ**, IFN-**a** AND TNF-**a** IN VITRO

QIU Lei; GUO Bao-yu; MI AO Hong; DAO Shu-yan; ZHANG Ran; YUAN Peng-qun; YANG Xu

Abstract:

AIMTo study the effect of prothymosin a (Pro Ta) as a fusion protein on secretion of IFN- γ , IFN-a and TNF-a *in vitro*. METHODSThe *in vitro* study was carried out on the culture of splenocytes, splenic and peritoneal macrophages isolated from Balb/c mice. Splenocytes were incubated with various concentrations of Pro Ta $(1\times10^{-7}\sim1\times10^{-10}~\text{mol}\cdot\text{L}^{-1})$ with or without Con A (5 $\mu\text{g}\cdot\text{mL}^{-1}$) for 72 h. Splenic and peritoneal macrophages were respectively treated with Pro Ta $(1\times10^{-7}\sim1\times10^{-10}~\text{mol}\cdot\text{L}^{-1})$ in the presence of LPS (10 $\mu\text{g}\cdot\text{mL}^{-1}$) for 24 h. Then IFN- γ , IFN-a and TNF-a levels in the supernatant were detected by ELISA. RESULTSPro Ta $(1\times10^{-7}~\text{mol}\cdot\text{L}^{-1})$ was found to obviously increase IFN- γ level (P<0.05) in the supernatant of splenocytes compared with the control group. Moreover, Pro Ta $(1\times10^{-7}~\text{mol}\cdot\text{L}^{-1})$ significantly induced the secretion of IFN-a (P<0.01) and TNF-a (P<0.01) in splenic and peritoneal macrophages. CONCLUSION*in vitro*, Pro Ta could increase the secretion of IFN- γ , IFN-a and TNF-a.

Keywords: immunoregulate cytokine prothymosin a

收稿日期 2001-06-11 修回日期 网络版发布日期

DOI:

基金项目:

通讯作者: 郭葆玉

作者简介:

参考文献:

本刊中的类似文章

扩展功能

本文信息

- ▶ Supporting info
- ▶ PDF(127KB)
- ▶ [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

- ▶胸腺素α原
- ▶ 免疫调节
- ▶细胞因子

本文作者相关文章

- ▶ 邱磊
- ▶ 郭葆玉
- ▶苗红
- ▶道书艳
- ▶张冉
- ▶袁鹏群
- ▶杨旭

PubMed

- 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	邮箱地址	
反馈标题	验证码	0998

Copyright 2008 by 药学学报