药学学报 1996, 31(2) 86-90 DOI: ISSN: CN:

论文

香菇多糖的免疫调节作用

王格林;林志彬

北京医科大学基础医学药理系，北京 100083

摘要：

研究香菇多糖(LTN)的免疫调节作用。结果表明,LTN1及5mg·kg^{-1}·d^{-1}×6,ip可促进正常小鼠由ConA(2.5mg·kg^{-1})刺激的脾脏T淋巴细胞增殖反应。1,5及10mg·kg^{-1}·d^{-1}×8或5,ip能分别纠正由环磷酰胺(Cy,200mg·kg^{-1}和80mg·kg^{-1},ip)诱导的免疫亢进或低下状态。此外,LTN(1,5和10mg·kg^{-1}·d^{-1}×6,ip),促使小鼠胸腺L3T4+(Th)和Lyt2+(Ts)细胞数减少,外周脾脏L3T4+和Lyt2+细胞数增加,腹腔巨噬细胞释出肿瘤坏死因子(TNF)也明显增加。这些作用均以LTN5mg·kg^{-1}·d^{-1}作用最佳。提示LTN可能通过影响T细胞及其亚型,促进TNF活性调节机体的免疫功能。

关键词： 香菇多糖 迟发型超敏反应 免疫调节作用 肿瘤坏死因子

THE IMMUNOMODULATORY EFFECT OF LENTINAN

GL Wang and ZB Lin

Abstract:

Lentinan(LTN) was extracted from *Lentinus edodes* (Berk)Sing with molecularweight of 5×10^5.The effects of lentinan on cellular immune function were studied in vivo bymeasuring the cellular delayed type hypersensitivity(DTH)to dinitrofluorobenzene (DNFB)incyclophosphamide(Cy)-comprised mice.The effect of lentinan on T lymphocyte proliferation toCon A on splenocytes and T lymphocyte subpopulations on thymocytes and on splenocytes from normalmice were also evaluated.Moreover, the effect of LTN on production of tumor necrosis factor(TNF) from murine peritoneal macrophage was also tested.LTN was administrated at doses of 1,5and 10 mg·kg^{-1}·d^{-1}.The following results were observed :LTN administration(×6) augmentedthe T lymphocyts proliferation to Con A in normal mice; LTN restorated the DTH to DNFB impairedby single Cy(200 mg· kg^{-1} and 80 mg· kg^{-1} ,ip)after using LTN for 8 or 5d;LTN administration(×6)either decreased the nercentage of L3T4$^+$(Th),Lyt2$^+$(Ts)in thymocytes or increased thepercentage of L3T4$^+$,Lyt2$^+$ in splenocytes;LTN(×6)administration elicited release of TNF fromMth in the presence of lipoplysaccharide(LPS).These results indicate that the immunomodulatingeffect of LTN mav be relevant to change of T cell subpopulation and increase of TNF production.

Keywords: Immunomedulatory effect Tumornecrosis factor Lentinan Delayed type hypersensitivity

收稿日期 1995-01-16 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.)

反馈		邮箱地址	

人			
反馈标题		验证码	6145