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论文

阿克拉霉素A聚氰基丙烯酸异丁酯毫微粒冻干针剂体内外抗肝癌活性

蒋学华:寥工铁:黄光琦:白绍槐:袁淑兰张旋波

成都华西医科大学药学院,成都 610041 **华西医科大学肿瘤研究所,***华西医科大学实验动物中心摘要:

阿克拉霉素A聚氰基丙烯酸异丁酯毫微粒的冻干针剂,能明显抑制体外培养人肝癌细胞株7703的生长,IC50为 0.28μg·ml⁻¹。在0.8μg·ml⁻¹浓度时,克隆形成抑制率为90%,抑制作用有明显剂量依赖关系而未见明显时间依赖关系。静脉给药后,对常位移植人肝癌模型裸小鼠的抑瘤率为86.84%,肿瘤细胞增殖活性阳性率为20.83%。体内外均显示明显的抗肝癌活性,且体内抗肝癌活性比阿克拉霉素A冻干针剂强。

关键词: 阿克拉霉素A 毫微粒 抗癌活性

HE ANTI HEPATOMA EFFECT OF LYOPHILIZED ACLACI NOMYCI N A POLYLSOSBUTYI CYANOACRYLATE NANOPARTI CLES LN VITRO AND LN VIVO

XH Jiang; GT Liao; GQ Huang; SH Bai; SL Yuan and XB Zhang

Abstract:

This paper reports the results of experiments on the antihepatoma effects of live targeted drug delivery system—lyophilized aclacinomycin A polyisobutylcyanoacrylate nanoparticle(ACM-IBC-NP) in vitro and in vivo. The median inhibition concentration were found to be 0.28 µg·ml-1 and 0.34µg·ml⁻¹ of lyophilized ACM-IBC-NP and ACM respectively in vitro. The inhibition ratio of colony formation were found to be 99%and 88%of lyophilized ACM-IBC-NP and ACM respectively *in vitro*, The antihepatoma activity was shown to be significantly concentration dependent. The results showed that lyophilized ACM-IBC-NP and ACM possess strong cytotoxicity on human hepatoma cell 7703, and the cytotoxicity was not significantly different between lyophilized ACM-IBC-NP and ACM *in vitro*. The model of orthotopic transplantation of human hepatoma in nude mice were used for evaluation of the activity of lyophilized ACM-IBC-NP and 46.69%for ACM. The cell proliferative activity of hepatoma were found to be 20.83%by lyophilized ACM-IBC-NP and 72.50%by ACM; All the results indicate that lyophilized ACM-IBC-NP and ACM have clinical application potential and the antihepatoma activity of lyophilized ACM-IBC-NP was obviously higher than that of ACM.

Keywords: Nanoparticles Antitumor activity Aclacinomycin A

收稿日期 1994-08-01 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:

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