药学学报 1994, 29(5) 380-386 DOI: ISSN: CN:

论文

肺靶向顺铂白蛋白微球的研究

张明;侯世祥;龚涛;程宇慧;廖工铁

成都华西医科大学药学院,成都610041;*1992届硕士毕业研究生;**1992届本科毕业生

摘要:

按正交设计筛选了用乳化一化学交联法制备肺靶向顺铂白蛋白微球的最佳制备工艺,并对微球的质量、稳定性、体内分布、动力学特性和安全性进行了系统研究。结果:微球表面圆整,平均粒径为13.13±3.55μm,药物包裹率为21.62%,释药特性符合双相动力学方程;微球在三种条件下贮放了3个月质量稳定;静脉注入小鼠体内,15min分布达高峰,97.52%浓集于肺部,2～3d内基本清除,在肺器官中的动力学特性可用二室开放性模型描述;肺器官病理切片观察,微球对肺组织无病理性损伤。

关键词: 肺靶向制剂 顺铂 白蛋白微球 药代动力学

STUDIES ON CISPLATINUM ALBUMIN MICROSPHERES FOR LUNG TARGETING

M Zhang;SX Hou. T Gong;YH Cheng and GT Liao

Abstract:

An optimum procedure was established by orthogonal test preparing cisplatinum albumin microspheres (CDDP-BSA-MS)with emulsion-chemical cross-linking.The quality,stability ,distribution *in vivo*,kinetic characteristics and safety of the albumin microspheres were studied.The results showed that the surface was regular,the mean size was l3.13士3.55 μm,embedding ratio was 21.62%and the release characteristics *in vitro* were in accord with“biphase kinetics equatio The stability of the albumin microspheres was good after three months storage,The microspheres accumulated almost entirely in the lung l5 minutes after intravenous injection to mice。The total amount in the lung was about 97%of the injected dose at the peak concentration,Two-compartmental model can be used to describe the regulation of the pharmacokinetics of albumin microspheres in lung.Observation of the lung slice of mice;showed no pathological damage。

Keywords: Cisplatinum Albumin microspheres Pharmacokine-tics Preparation for lung targeting

收稿日期 1993-07-25 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.)

反馈人		邮箱地址	
反馈标题		验证码