[1]甘露,田睿,郭锋,等.和厚朴酚自微乳化给药系统的研究[J].第三军医大学学报,2013,35(19):2073-2076.

Gan Lu,Tian Rui,Guo Feng,et al.Development of self-microemulsifying drug delivery system for honokiol[J].J Third Mil Med Univ,2013,35(19):2073-2076.

和厚朴酚自微乳化给药系统的研究(PDF)

《第三军医大学学报》[ISSN:1000-5404/CN:51-1095/R] 卷: 35 期数: 2013年第19期 页码: 2073-2076 栏目: 论著 出版日期: 2013-10-15

Title: Development of self-microemulsifying drug delivery system for honokiol

作者: 甘露; 田睿; 郭锋; 王春晖; 左的于; 张良珂

重庆医科大学：药学院药剂学教研室，实验教学中心药学组，基础医学院救援医学系

Author(s): Gan Lu; Tian Rui; Guo Feng; Wang Chunhui; Zuo Deyu; Zhang Liangke

Department of Pharmacy, School of Pharmacy, Pharmacy group of Experimental Teaching Centre,Faculty of Rescue Medicine, College of Basic Medical Sciences, Chongqing Medical University, Chongqing, 400016, China

关键词: 和厚朴酚; 自微乳化给药系统; 伪三元相图

Keywords: honokiol; self-microemulsifying drug delivery system; pseudo-ternary phase diagram

分类号: R284.1; R943

文献标志码: A

摘要: 目的 筛选并优化了和厚朴酚自微乳化给药系统（honokiol-SMEDDS）的处方。方法 利用溶解度，辅料配伍实验及伪三元相图筛选空白处方，以粒径和体外释放评价为指标选取最佳处方。结果 优化后的honokiol-SMEDDS处方油相为辛癸酸甘油酯（MCT），表面活性剂为聚氧乙烯氢化蓖麻油（Cremophor RH40），助表面活性剂为二乙二醇单乙基醚（Transcutol P），油相比例20%，表面活性剂与助表面活性剂的比值K_m为2，载药量为10%，平均粒径为28 nm。结论 成功制备了honokiol-SMEDDS，显著提高了和厚朴酚的溶解度。

Abstract: Objective To screen and optimize the formulation of self-microemulsifying drug delivery system (SMEDDS) for honokiol. Methods The formulation of honokiol-SMEDDS was screened by solubility experiment, compatibility test for excipients and pseudo-ternary phase diagrams. And the best formulation was determined by the particle size and *in vitro* release evaluation. Results In the best formulation of honokiol-SMEDDS, octyl and decyl glycerate (MCT), polyoxyethylene hydrogenated castor oil (Cremophor RH40) and diethylene glycol monoethyl ether (Transcutol P) were used as oil phase, surfactant and co-surfactant, respectively. The percentage of oil phase was 20%, K_m of surfactant to cosurfactant was 2, the drug loading was 10%, and the average particle size was 28 nm. Conclusion The honokiol-SMEDDS is prepared successfully, and the solubility of honokiol is improved significantly.

导航/NAVIGATE

本期目录/Table of Contents

下一篇/Next Article

上一篇/Previous Article

工具/TOOLS

引用本文的文章/References

下载 PDF/Download PDF(1126KB)

立即打印本文/Print Now

查看/发表评论/Comments

导出

参考文献/REFERENCES:

甘露,田睿,郭锋,等. 和厚朴酚自微乳化给药系统的研究[J].第三军医大学学报,2013,35(19):2073-2076.

相似文献/REFERENCES:

[1]娄杰,徐才兵,田睿,等.眼用和厚朴酚包合物温敏原位凝胶的制备及性质研究[J].第三军医大学学报,2013,35(21):2340.
Lou Jie,Xu Caibing,Tian Rui,et al.Preparation and characterization of thermosensitive in situ gel system containing honokiol inclusion complex for ophthalmic drug delivery[J].J Third Mil Med Univ,2013,35(19):2340.

更新日期/Last Update: 2013-09-30