

论文

异三尖杉酯碱的合成及异构体的分离

李颐南;吴克美;黄量

中国医学科学院药物研究所,北京;*78届研究生

摘要:

关键词: 异三尖杉酯碱 三尖杉碱 Reformatsky反应 α -烷氧基 α -溴代乙酸酯

SYNTHESIS OF ISOHARRINGTONINE AND SEPARATION OF THE ISOMERS

LI Yi-nan; WU Ke-mei and HUANG Liang

Abstract:

Isoharringtonine (1), one of the four cephalotaxine esters exhibiting antitumor activity was synthesized by first treating the cephalotaxine ester of keto acid with α -benzyloxy- α -bromoacetic acid ester instead of the classical α -bromoacetic acid in the Reformatsky reaction to give a mixture of four stereoisomers. The mixture could only be separated into two parts A and B by chromatotron. A and B were hydrogenated separately with Pd/C. The reaction products obtained were separated on chromatotron to give A_{H1} , A_{H2} and B_{H1} , B_{H2} correspondingly. The m p, $[\alpha]$ and various spectra of B_{H1} are identical with those of the natural isoharringtonine. The configurations of the rest three isomers were postulated based upon their NMR spectra in combination with conformational analysis.

Keywords: Cephalotaxine Reformatsky reaction α -Alkoxy- α -bromo acetic acid ester Isoharringtonine

收稿日期 1982-08-21 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

1. 施波;韩锐.异三尖杉酯碱诱导HL-60细胞凋亡[J]. 药学学报, 1998,33(6): 407-412
2. 李颐南;吴克美;黄量.异三尖杉酯碱的合成及其异构体的分离[J]. 药学学报, 1984,19(8): 582-589
3. 李占荣;孙振荣;韩锐.三尖杉酯类生物碱对L615及P388白血病细胞cAMP含量的影响[J]. 药学学报, 1983,18(4): 303-306

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.)

扩展功能

本文信息

- ▶ Supporting info
- ▶ PDF(98KB)
- ▶ [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

- ▶ 异三尖杉酯碱
- ▶ 三尖杉碱
- ▶ Reformatsky反应
- ▶ α -烷氧基 α -溴代乙酸酯

本文作者相关文章

- ▶ 李颐南
- ▶ 吴克美
- ▶ 黄量

PubMed

- ▶ Article by
- ▶ Article by
- ▶ Article by

反馈人	<input type="text"/>	邮箱地址	<input type="text"/>
反馈标题	<input type="text"/>	验证码	<input type="text"/> 3091