本期目录 | 下期目录 | 过刊浏览 | 高级检索

[打印本页] [关闭]

论文

1-[2-(N-甲基-N-取代苄基)氨基-2-(2,4-二氟苯基)乙基]-1H-1,2,4-三唑类化合物的合成及抗 真菌活性

冯志祥;张万年;周有骏;朱驹;吕加国;李科

第二军医大学药学院,上海200433

摘要:

目的: 1-[2-(N-甲基-N-取代苄基) 氨基-2-(2,4-二氟苯基) 乙基]-1H-1,2,4-三唑类化合物的合成及抗真菌活性研究。方法: 通过付-克反应、三唑烷基化、酮亚胺还原和Leuckart 反应,得到关键中间体,然后通过N-烷基化反应制得目标化合物,并用二倍稀释法测定了体外抑菌活性。结果: 合成了23 个1-[2-(N-甲基-N-取代苄基) 氨基-2-(2,4-二氟苯基) 乙基]-1H-1,2,4-三唑类化合物,均为首次报道。所有目标化合物对8 种致病真菌均有不同程度的抗真菌活性。大部分化合物对 Candida. albicans 和 Candida. parapsilosis 的抗菌活性明显高于布替萘芬,其中1,2,6,13,14,19 对 Candida. albicans 的抗菌活性是益康唑的8~32 倍,2,13 对 Cryptococcu. neoformans 的抗菌活性是布替萘芬的4~8 倍,是益康唑64~128 倍。所有化合物对 Microsporum .canis 的抗菌活性均高于或相当于益康唑。结论: 其中一些化合物显示了较强抗真菌的活性,值得进一步研究。

关键词: 三唑苄胺类 抗真菌活性

SYNTHESIS AND ANTIFUNGAL ACTIVITIES OF-1-[2-(-N-METHYL-N-SUBSTITUTED-BENZYL)AMINO-2-(2,4-DIFLUOROPHENYL) ETHYL]-1H-1,2,4-TRIAZOLES

Feng Zhixiang; Zhang Wannian; Zhou Youjun Zhu Ju Lü Jiaguo and Li Ke

Abstract:

AIM: To study the synthesis and antifungal activities of 1-[2-(Nmethyl-Nsubstituted-benzyl)amino-2-(2,4 difluorophenyl)ethyl]-1H-1,2,4-triazoles. METHODS: Key intermediate were prepared by Friedel-Crafts reaction, triazolyl alkylation, ketimine reduction and Leuckart reaction. The title compounds were synthesised by Nalkylation. Antifungal activities in vitro were measured by the two times dilution method. RESULTS: Twentythree 1-[2-(Nmethyl-Nsubstituted-benzyl)amino-2-(2,4-difluorophenyl)ethyl]-1H-1,2,4-triazoles were synthesised and first reported. All the title compounds exhibited activities against eight fungi. Many of them showed more potent antifungal activities than butenafine against Candida albicans and Candida parapsilosis. The antifungal activities of compounds 1,2,6,13,14 and 19 are 8~32 times more active than econazole against Candida albicans. Compounds 2 and 4 are 4 and 8 times more active than butenafine and 64 and 128 times more than econazole against Cryptococcus neoformans respectively. All the compounds showed equal or more potent activity against Microsporum caniso compared with econazole. CONCLUSION: Some title compounds showed strong antifungal activities and should be studied further.

Keywords: antifungal activity triazoly benzylamines

收稿日期 1999-04-26 修回日期 网络版发布日期

DOI:

基金项目:

通讯作者: 张万年

作者简介:

参考文献:

本刊中的类似文章

扩展功能

本文信息

- ▶ Supporting info
- ▶ PDF(180KB)
- ▶ [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

- ▶ 三唑苄胺类
- ▶抗真菌活性

本文作者相关文章

- ▶冯志祥
- ▶ 张万年
- ▶周有骏
- ▶ 朱驹
- ▶吕加国
- ▶ 李科

PubMed

- Article by

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	5341

Copyright 2008 by 药学学报