

论文

红海榄叶的化学组成及其生物活性

杨旭红;李怀标;陈虹;李萍;叶波平

中国药科大学 1. 生命科学与技术学院, 江苏 南京 210009, 2. 现代中药教育部重点实验室, 江苏 南京 210038

摘要:

关键词: 红海榄 叶片 化学成分 肿瘤细胞 脾淋巴细胞

Chemical constituents in the leave of *Rhizophora stylosa* L and their biological activities

YANG Xu-hong; LI Huai-biao; CHEN Hong; LI Ping; YE Bo-ping

Abstract:

Ten compounds were isolated from the leaves of *Rhizophora stylosa*, one kind of mangrove plants distributed in the tropical and subtropical areas of the world. Their structures were identified as taraxerone (1), taraxerol (2), β -sitosterol (3), careaborin (4), *cis*-careaborin (5), β -daucosterol (6), isovanillic acid (7), protocatechuic acid (8), astilbin (9) and rutin (10), among which compound 9 and 10 were reported in this plant for the first time. Of these compounds, compound 2 has been confirmed to have the abilities to inhibit the growth of Hela and BGC-823 with IC_{50} of $73.4 \mu\text{mol}\cdot\text{L}^{-1}$ and $73.3 \mu\text{mol}\cdot\text{L}^{-1}$, respectively. Compound 5 could inhibit the growth of BGC-823 and MCF-7 with IC_{50} of $45.9 \mu\text{mol}\cdot\text{L}^{-1}$ and $116.0 \mu\text{mol}\cdot\text{L}^{-1}$, respectively. Compound 9 and 10 were firstly reported to stimulate the proliferation of mice splenic lymphocytes markedly in a dose-dependent manner.

Keywords: leave chemical constituent tumor cell splenic lymphocyte *Rhizophora stylosa*

收稿日期 2008-05-14 修回日期 网络版发布日期

DOI:

基金项目:

通讯作者: 叶波平

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.)

扩展功能

本文信息

- Supporting info
- PDF(712KB)
- [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

- 红海榄
- 叶片
- 化学成分
- 肿瘤细胞
- 脾淋巴细胞

本文作者相关文章

- 杨旭红
- 李怀标
- 陈虹
- 李萍
- 叶波平

PubMed

- Article by
- Article by
- 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"/> 6813