

论文

中药墨旱莲中的三萜皂苷

赵越平;汤海峰;蒋永培;王忠壮;易杨华;雷其云

1.第四军医大学西京医院药剂科,陕西西安710032; 2.第二军医大学药学院,上海200433

摘要:

目的 研究中药墨旱莲Ecliptaprostrata L.中的三萜皂苷化合物。方法 应用柱色谱和HPLC法分离纯化,通过光谱分析(IR,MS,¹HNMR,¹³CNMR,DEPT,HMQC和HMBC)鉴定其化学结构。结果 分离并鉴定了5个三萜皂苷,其中2个新化合物eclalbasaponinsXI(4)和XII(5)的结构分别为:3-O-[β-D-吡喃葡萄糖(1→2)-β-D-吡喃葡萄糖]-16α-乙氧基 齐墩果酸-28-O-β-D-吡喃葡萄糖苷(4)和3-O-[(2-O-硫酰基-β-D-吡喃葡萄糖)(1→2)-β-D-吡喃葡萄糖] 刺囊酸-28-O-β-D-吡喃葡萄糖苷(5)。结论 4和5为新化合物,1和5具有诱导稻瘟霉菌丝变形活性。

关键词: 墨旱莲 eclalbasaponinXI eclalbasaponinXII 稻瘟霉 活性测试

TRITERPENOID SAPONINS FROM ECLIPTA PROSTRATA L.

ZHAO Yue-ping; TANG Hai-feng; JIANG Yong-pei; WANG Zhong-zhuang; YI Yang-hua; LEI Qi-yun

Abstract:

AIM To study the triterpenoid saponins in the Chinese traditional medicine Eclipta prostrata L.. METHODS Column chromatography with silica gel and HPLC were employed for the isolation and purification. The molecular structures were determined on the basis of spectral analysis (IR, MS, ¹HNMR, ¹³CNMR, HMQC and HMBC). RESULTS Two new triterpenoid saponins,named eclalbasaponins XI (4) and XII (5), were obtained and their structures were elucidated as 3-O-[β-D-glucopyranosyl(1→2)-β-D-glucopyranosyl]-16α-ethoxy-olean-12-ene-28-oic acid-28-O-β-D-glucopyranoside and 3-O-[(2-O-sulfuryl-β-D-glucopyranosyl)(1→2)-β-D-glucopyranosyl]-echinocystic acid-28-O-β-D-glucopyranoside, respectively, along with three known saponins, eclalbasaponins II (1), I (2) and III (3). CONCLUSION Compounds 4 and 5 are new compounds, 1 and 5 induced morphological deformation of Pyricularia oryzae mycelia.

Keywords: eclalbasaponin XI eclalbasaponin XII Pyricularia oryzae bioassay Eclipta prostrata

收稿日期 2001-01-10 修回日期 网络版发布日期

DOI:

基金项目:

通讯作者:

作者简介:

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