

论文

红花锦鸡儿地上部分抗HIV化学成分的研究

杨国勋; 亓建斌; 程科军; 胡昌奇

复旦大学 药学院, 上海 200032

摘要:

为了研究红花锦鸡儿(Caragana rosea)地上部分的化学成分, 寻找具有抗HIV作用的药用成分。在抗HIV生物活性指导下, 利用色谱技术进行分离纯化, 从红花锦鸡儿地上部分的乙酸乙酯提取部位分得5个化合物, 根据理化性质和波谱技术进行结构鉴定, 分别鉴定为myricetin(1), mearnsetin(2), 对羟基桂皮酸(3), cararosinol A(4), cararosinol B(5), 并推测了cararosinol B与该植物中发现的另一白藜芦醇四聚体kobophenol A的转化关系。化合物4和5为新的白藜芦醇四聚体, 化合物1~3为首次从该植物中分得。上述化合物体外均无明显的抑制HIV作用。

关键词: 豆科 红花锦鸡儿 芪类 cararosinol A cararosinol B

Anti-HIV chemical constituents of aerial parts of Caragana rosea

YANG Guo-xun; QI Jian-bin; CHENG Ke-jun; HU Chang-qi

Abstract:

This study was intended to look for anti-HIV chemical constituents of aerial parts of Caragana rosea Turcz. Column chromatographic technique was used for the isolation and purification of constituents of Caragana rosea under the guide of anti-HIV assay. The structures were established on the basis of physical and chemical properties and spectroscopic data. Five compounds were obtained from the EtOAc fraction of aerial parts of Caragana rosea and identified as myricetin (1), mearnsetin (2), P-hydroxy cinnamic acid (3), cararosinol A (4) and cararosinol B (5). At the same time, one possible transformation route between cararosinol B and kobophenol A, another resveratrol tetramer isolated from this plant previously, was proposed. Compounds 4, 5 are new resveratrol tetramers, compounds 1-3 were isolated from this plant for the first time. All compounds showed no activities in an in vitro assay against HIV-1.

Keywords: Caragana rosea stilbenoid cararosinol A cararosinol B Leguminosae

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作者简介:

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