

论文

云南萝芙木叶吲哚生物碱

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摘要:

从栽培云南萝芙木(*Rauvolfia yunnanensis* Tsiang)叶的95%乙醇提取物中分离得到11个吲哚类生物碱: Caberine(1), 19-Ethoxyl-1-demethyl- Δ^1 -17-acetyljmaline(2), Velloimine(3), β -Yohimbine(4), Yohimbine(5), Vinorine(6), Picrinine(7), Nareline(8), Akuammicine(9), Strictamine(10), Reserpine(11). 采用UV, IR, MS和1D, 2D NMR方法对它们的结构进行了鉴定, 其中化合物2为新的吲哚生物碱, 化合物1, 8和9为首次从该属植物中分离得到.

关键词: 云南萝芙木; 吲哚生物碱; 19-Ethoxyl-1-demethyl- Δ^1 -17-acetyljmaline; Caberine; 利血平; 育亨宾

Indole Alkaloids from the Leaves of *Rauvolfia yunnanensis*

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Abstract:

Rauvolfia yunnanensis Tsiang are commonly used as a folklore herb to treat hypertension, snake bites, and insanity in the southwest of China, and an important industrial raw material of reserpine and vertical. But the wild resources of it reduced gradually in recent years, thus we have introduced and cultivated it to the arid-hot valley region of Yunnan Province, China, and investigated the chemical constituents variety of it for the sustainable utilization. The dried leaves powder(8.0 kg) of *R. yunnanensis* was extracted with 95%(volume fraction) EtOH(40 L \times 5, 8 h each), and led to the isolation of eleven indole alkaloids by column chromatography(silica, alumina and Sephadex LH-20 gel) methods. Their structures were identified as caberine(1), 19-ethoxyl-1-demethyl- Δ^1 -17-acetyljmaline(2), velloimine(3), β -yohimbine(4), yohimbine(5), vinorine(6), picrinine(7), nareline(8), akuammicine(9), strictamine(10), reserpine(11) by spectral analysis(UV, IR, MS and 1D, 2D NMR), respectively. Among them, compound 2 was a new indole alkaloids, compounds 1, 8 and 9 were firstly isolated from this plant.

Keywords: *Rauvolfia yunnanensis*; Indole alkaloid; 19-Ethoxyl-1-demethyl- Δ^1 -17-acetyljmaline; Caberine; Reserpine; Yohimbine

收稿日期 2009-05-05 修回日期 网络版发布日期

DOI:

基金项目:

云南省自然科学基金(批准号: 2006C0010Z)资助.

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