

论文

藏药五脉绿绒蒿中的生物碱藏药五脉绿绒蒿中的生物碱

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摘要:

目的 研究藏药五脉绿绒蒿 (Meconopsis quintuplinervia Regel) 的化学成分。方法 用多种色谱技术进行分离纯化, 用IR, MS, 1D-和2D-NMR鉴定化合物结构。结果 从95%乙醇提取物中分离出3个生物碱, 分别鉴定为去甲血根碱 (norsanguinarine, I)、O-甲基淡黄巴豆亭碱 (O-methylflavinantine, II) 和五脉绿绒蒿碱 (meconoquintupline, III)。结论 化合物III为新化合物。

关键词: 五脉绿绒蒿; 去甲血根碱; O-甲基淡黄巴豆亭碱; 五脉绿绒蒿碱

Alkaloids from a Tibetan medicine Meconopsis quintuplinervia Regel

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Abstract:

Aim To reinvestigate the chemical constituents of the ethanolic extract of Meconopsis quintuplinervia Regel which is a traditional Tibetan medicine used for treatments of hepatitis, tuberculosis etc.. Methods The compounds were enriched by column chromatography techniques over silica gel, macro porous resin and Sephadex LH-20 absorbents, and finally purified by reverse phase preparative HPLC methods with isocratic mobile phase systems of methanol-H<sub>2</sub>O-acetic acid (500:500:1) and acetonitrile-H<sub>2</sub>O-acetic acid (200:800:1). Structural determination of the pure compounds were based on extensive analyses of modern spectroscopic methods including IR, MS, HRMS, 1D- and 2D-NMR spectra. Results Three alkaloids were obtained and their structures were elucidated as norsanguinarine (I), O-methylflavinantine (II) and 6-methoxy-17-methyl-2,3- [methylenebis(oxy)] -morphin-5-en-7-one (III). Conclusion Norsanguinarine (I) was isolated from genus Meconopsis for the first time, and 6-methoxy-17-methyl-2,3- [methylenebis(oxy)] -morphin-5-en-7-one (III) is a new alkaloid named as meconoquintupline.

Keywords: norsanguinarine O-methylflavinantine meconoquintupline Meconopsis quintuplinervia

收稿日期 2002-09-04 修回日期 网络版发布日期

DOI:

基金项目:

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