

 中文标题 检索 跨刊检索

山胡椒抗肿瘤转移化学成分研究

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中文摘要:目的:研究山胡椒*Lindera glauca*中的化学成分及其抗肿瘤转移活性。方法:综合运用硅胶柱色谱、凝胶柱色谱、HPLC制备色谱等多种色谱法分离纯化山胡椒中的化学成分;采用NMR等波谱学方法鉴定化合物结构;进一步以Transwell趋化实验方法测定化合物抗肿瘤转移作用。结果:从山胡椒乙醇提取物中分离得到10个化合物,分别为樟脑(1)、N-甲基樟脑(2)、瑞枯灵(3)、紫萘碱(4)、N-反式阿魏酸酯(5)、N-顺式阿魏酸酯(6)、苦杉香碱(7)、降异紫萘定碱(8)、-(1S',3R',4S',8S')-p-Menthane-3,8-diol(9)、-(1S',3R',4S',8S')-p-Menthane-3,8-diol(10)。抗肿瘤转移实验结果表明化合物1,2,4,5,7和9均有明确的抗肿瘤转移作用,其中化合物1,4和5的抗肿瘤转移活性较强。结论:化合物3为首次从该植物中分离得到;化合物9,10为首次从该属植物中分离得到;化合物1,4和5的抗肿瘤转移活性较强。

中文关键词:山胡椒 生物碱 单萜 抗肿瘤转移活性

Studies on anti-tumor metastatic constituents from *Lindera glauca*

Abstract:Objective: To study the anti-tumor metastatic constituents from *Lindera glauca*. Method: Constituent isolation and purification was carried by repeated column chromatography(silica gel, Toyopearl HW-40 and preparative HPLC). Their structures were elucidated on the basis of spectral data analysis. The anti-tumor metastasis assay was applied to evaluate the isolated compounds of their activities. Result: Ten compounds(1-10) were isolated and their structures were identified by comparison of their spectral data with literature values as follows: Laurotetanine(1), N-methyllaurotetanine(2), reticuline(3), pallidine(4), N-trans-feruloyltyramine(5), N-cis-feruloyltyramine(6), atheroline(7), norisocorydine(8), -(1S',3S',4S',8S')-p-menthane-3,8-diol(9), -(1S',3R',4S',8S')-p-Menthane-3,8-diol(10). Compounds 1,2,4,5,7 and 9 showed positive anti-tumor metastatic activities, and compounds 1,4, and 5 showed significant anti-tumor metastatic activities. Conclusion: Compound 3 was isolated from this plant for the first time. Compounds 9 and 10 were isolated from *Lindera* genus for the first time. Compounds 1,4 and 5 showed significant anti-tumor metastatic activities.

keywords: *Lindera glauca* alkaloid monoterpene anti-tumor metastatic activity

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