



中文标题 检索 药刊检索

小蜡树的酚苷及苯乙醇苷类成分

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中文摘要:目的:系统研究小蜡树*Fraxinus sieboldiana*枝乙醇提取物的化学成分。方法:运用正相和反相硅胶、大孔吸附树脂、凝胶、反相高效液相等色谱方法进行分离;应用包括一维和二维NMR等波谱方法鉴定化合物的结构。结果:从小蜡树枝的乙醇提取物水相部位分离得到4个酚苷和12个苯乙醇苷类成分,分别鉴定为2,6-二甲氧基-对苯二酚-4-O-β-D-吡喃葡萄糖苷(1),2,6-二甲氧基-对苯二酚-1-O-β-D-吡喃葡萄糖苷(2),4-羟基-3-甲氧基苯基β-D-吡喃葡萄糖苷(3),4-羟基-3-甲氧基苯基β-D-吡喃木糖基(1→6)-O-β-D-吡喃葡萄糖苷(4),osmanthuside H(5),2-(4-羟基苯基)乙基β-D-吡喃葡萄糖苷(6),2-(3,4-二羟基苯基)乙基β-D-吡喃葡萄糖苷(7),2-羟基-4-(2-羟基乙基)苯基β-D-吡喃葡萄糖苷(8),4-(2-羟基乙基)-2-甲氧基苯基β-D-吡喃葡萄糖苷(9),calceolarioside A(11),ferruginoside A(12),isolugrandoside(13),类叶升麻苷(14),chiritoside C(15)和plantanoside(16)。结论:化合物1-4,9,12,13和16为首次从该属植物中分离得到。

中文关键词:小蜡树 化学成分 酚苷 苯乙醇苷

Phenolic and phenylethanoid glycosides from branch of *Fraxinus sieboldiana*

Abstract:Objective: To investigate chemical constituents from an ethanolic extract of the branch of *Fraxinus sieboldiana* (Oleaceae). Method: The constituents were isolated and purified by a combination of various chromatographic techniques including silica gel, macroporous adsorbent resin, Sephadex LH-20, and preparative HPLC. Structures of the isolates were elucidated by spectroscopic methods including 1D and 2D NMR and MS techniques. Result: Four phenolic and twelve phenylethanoid glycosides were obtained and their structures were identified as 2,6-dimethoxy-*p*-hydroquinone-4-*O*-β-*D*-glucopyranoside (1), 2,6-dimethoxy-*p*-hydroquinone-1-*O*-β-*D*-glucopyranoside (2), 4-hydroxy-3-methoxyphenyl β-*D*-glucopyranoside (3), 4-hydroxy-3-methoxyphenyl β-*D*-xylopyranosyl (1→6)-*O*-β-*D*-glucopyranoside (4), osmanthuside H (5), 2-(4-hydroxyphenyl) ethyl β-*D*-glucopyranoside (6), 2-(3,4-dihydroxyphenyl) ethyl β-*D*-glucopyranoside (7), 2-hydroxy-4-(2-hydroxyethyl)-phenyl β-*D*-glucopyranoside (8), 4-(2-hydroxyethyl)-2-methoxyphenyl β-*D*-glucopyranoside (9), calceolarioside B (10), calceolarioside A (11), ferruginoside A (12), isolugrandoside (13), acteoside (14), chiritoside C (15), and plantanoside (16). Conclusion: Compounds 1-4,9,12, 13 and 16 were obtained from the genus *Fraxinus* for the first time.

keywords: *Fraxinus sieboldiana* chemical constituents phenolic glycosides phenylethanoid glycosides

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