

论文

瑞香狼毒中新的双黄酮和活性化合物

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摘要:

目的 研究中药狼毒药材来源之一瑞香狼毒(*Stellera chamaejasme* L)根的化学成分。方法 用各种柱色谱进行分离纯化,用各种波谱分析方法鉴定其结构。结果 从瑞香狼毒的根中分离并鉴定出3种双黄酮和8种木脂素:瑞香狼毒素A (1)和B (2), 4,4',5,5',7,7'-hexahydroxy-3,3"-biflavanone (3), (+) kusunokinin (4), lirioresinol-B (5), magnolenin C (6), (-)- pinoresinol monomethyl ether (7), (-) pinoresinol (8), (+) matairesinol (9), isohinokinin (10)和(-)-eudesmin (11)。结论 化合物1和2为新化合物,1是已知双黄酮chamaejasmenin C的对映体,4,6,8,9,10和11是从本植物中首次分得,7是首次从天然界分得,体外生物测试表明3和8有抗菌活性,1,2,9和11有免疫调节活性。

关键词: 狼毒 双黄酮 体外生物测定

NEW BIFLAVANONES AND BIOACTIVE COMPOUNDS FROM *STELLERA CHAMAEJASME* L.

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Abstract:

AIM To study the chemical constituents of the root of *Stellera chamaejasme* L. METHODS Various column chromatographies on silica gel and RP-18 were employed for isolation and purification. Structures of compounds were elucidated by spectral analysis. RESULTS Eight lignans and three biflavonoids possessing a C-3/C-3" linkage were isolated. They are ruixianglangdusu A (1) and B (2), 4',4',5,5',7,7"-hexahydroxy-3,3"-biflavone (3), (+)-kusunokinin (4), lirioresinol-B (5), magnolenin C (6), (-)-pinoresinol monomethyl ether (7), (-)-pinoresinol (8), (+)-matairesinol (9), isohinokinin (10) and (-)-eudesmin (11). CONCLUSION Compounds 1 and 2 are new biflavanones, 1 is enantiomeric to known chamaejasmenin C, 4, 6, 8, 9, 10 and 11 were isolated from this plant for the first time, and 7 was isolated from natural resources for the first time. *In vitro* bioassays showed that 3 and 8 exhibited antibacterial activity, and 1, 2, 9 and 11 exhibited immunomodulatory activity.

Keywords: biflavanones *in vitro* bioassay *Stellera chamaejasme*

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