

论文

浅裂鳞毛蕨根茎中的二氢黄酮苷类化学成分

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摘要:

为研究浅裂鳞毛蕨根茎中的化学成分,用Sephadex LH-20, silica gel等柱色谱方法从其水提取物中分离得到化合物,并根据理化性质和波谱数据鉴定其结构。分离得到9个化合物,分别为浅裂鳞毛蕨素A(1),浅裂鳞毛蕨素B(2),浅裂鳞毛蕨素C(3),浅裂鳞毛蕨素D(4),东方荚果蕨酯A(5),东方荚果蕨酯C(6),熊果苷(7),3-甲氧基-4-羟基苯基-1-O-β-D-葡萄糖苷(8)和3,4-二甲氧基苯基-1-O-β-D-葡萄糖苷(9)。其中化合物1~4为新化合物,其余均为首次从本植物中分得。

关键词: 浅裂鳞毛蕨 二氢黄酮苷 结构鉴定

Flavanone O-glycosides from the rhizomes of *Dryopteris sublaeta*

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Abstract:

The aim of this study was to look for the chemical constituents from the rhizomes of *Dryopteris sublaeta*. The fresh plant was extracted twice with boiling water, the extract was concentrated to small volume under reduced pressure at 50 °C. The concentrated material was partitioned with ether, ethyl acetate and n-butanol. The fraction of ethyl acetate was repeatedly chromatographed over silica gel and Sephadex LH-20 columns. Structures of pure compounds were established on the basis of their physicochemical and spectral data. Nine compounds were obtained and identified as sublaetentin A (1), sublaetentin B (2), sublaetentin C (3), sublaetentin D (4), matteuorientate A (5), matteuorientate C (6), arbutin (7), 3-methoxy-4-hydroxyphenyl-1-O-β-D-glucopyranoside (8) and 3,4-dimethoxyphenyl-1-O-β-D-glucopyranoside (9). Compounds 1-4 are new compounds, the others were isolated from this plant for the first time.

Keywords: flavanone O-glycosides structure identification *Dryopteris sublaeta*

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