

论文

黄连花中两个新的三萜皂苷黄连花中两个新的三萜皂苷

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摘要:

目的对黄连花(Lysimachia davurica Ledeb.)全草的三萜皂苷成分进行分离和结构鉴定。方法通过大孔树脂纯化,硅胶和反相硅胶色谱分离正丁醇萃取物物中的三萜皂苷;利用多种波谱技术并结合酸水解方法鉴定其化学结构。结果分离鉴定了2个三萜皂苷,其结构分别为3β,16α,29-三羟基-13,28-环氧-齐墩果烷-3-O-β-D-吡喃葡萄糖基-(1→2)-β-D-吡喃葡萄糖酸甲酯苷(I),3β,16α,28-三羟基-齐墩果-12-烯-3-O- {β-D-吡喃葡萄糖基(1→2)-β-D-吡喃葡萄糖醛酸} -28-O-β-D-吡喃葡萄糖苷(II)。结论化合物I和II为新的三萜皂苷,分别命名为黄连花皂苷D和J。

关键词: 黄连花 三萜皂苷 黄连花皂苷D 黄连花皂苷J

Two new triterpenoid saponins from *Lysimachia davurica*

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Abstract:

AimTo study the triterpenoid saponins in the whole plant of *Lysimachia davurica* Ledeb. MethodsColumn chromatography (including AB-8 macroporous resin, silica gel and ODS) was used to separate triterpenoid saponins whose structures were elucidated by ESI-MS, NMR (1D and 2D) and hydrolysis methods. ResultsTwo new triterpenoid saponins were isolated and established as 3β,16α,28-trihydroxy-olean-12-en-3-O- {β-D-glucopyranosyl-(1→2)-β-D-glucuronopyranosyl} -28-O-β-D-glucopyranoside } (I), 3β,16α,28-trihydroxy-olean-12-en-3-O- {β-D-glucopyranosyl-(1→2)-β-D-glucuronopyranosyl} -28-O-β-D-glucopyranoside } (II). ConclusionCompounds I and II are new compounds and named as davuricosides D and J.

Keywords: triterpenoid saponin davuricoside D davuricoside J *Lysimachia davurica*

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