



牛膝菊中的萜类及甾醇类成分

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Terpenes and sterols from *Galinsoga parviflora*

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全文: PDF (757 KB) HTML (KB) 输出: BibTeX | EndNote (RIS) 背景资料

摘要 在细胞毒试验结果指导下,同步对牛膝菊(*Galinsoga parviflora*)全株的有效部位进行化学成分分离纯化,得到7个化合物,通过理化数据测定及波谱数据分析,鉴定了化学结构,分别是:对映-贝壳杉-16-烯-19-酸(1);对映-15-当归酰氧基-16-贝壳杉烯-19-酸(2);对映-15-当归酰氧基-16,17-环氧-19-贝壳杉烷酸(3);甾甾醇(4); α -菠甾醇(5); α -菠甾醇硬脂酸酯(6); β -谷甾醇(7)。同时,细胞毒试验表明,牛膝菊的氯仿及乙酸乙酯提取物有一定细胞毒活性,其IC₅₀分别为8.5,10.5 μ g/mL。

关键词: 牛膝菊 细胞毒性 萜烯 甾醇

Abstract: The chemical constituents of *Galinsoga parviflora* were studied. Seven compounds were isolated from *G. parviflora* by column chromatographies of sephadex LH-20 and silica gel. Their structures were identified by physical and chemical properties and spectral data analysis. All the seven compounds were isolated from this plant for the first time. These compounds are: ent-kaur-16-en-19-oic acid, ent-15-angeloyloxy-16-kaur-19-oic acid, ent-15-angeloyloxy-16,17-epoxy-19-kauranoic acid, stigmasterol, α -spinasterol, α -spinasteryl octadecanoate, β -sitosterol. Cytotoxicity screening of the extracts from *Galinsoga parviflora* Cav was carried out by HL60 cell. Two extractive fractions obtained with chloroform and ethyl acetate possess anticancer activities. Their IC₅₀ are 8.5, 10.5 μ g/mL respectively.

Key words: *Galinsoga parviflora* Cav. cytotoxicity terpenes sterols

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