



亮叶围涎树根的化学成分及其肿瘤细胞毒性研究

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中文摘要:目的:研究亮叶围涎树根的化学成分及其抗肿瘤活性。方法:应用硅胶,Sephadex LH-20,HPLC等各种色谱技术进行分离纯化,用NMR等谱学方法分析确定化合物结构。采用MTT法对分离得到的化合物进行抗肿瘤活性评价。结果:从亮叶围涎树根的95%乙醇提取物的乙酸乙酯萃取物中分离得到6个化合物,分别鉴定为:julibroside A₂(1),3-,16 α -hydroxyolean-12-en-28-oic acid (2),没食子酸(3),没食子酸乙酯(4),(+)-儿茶素(5),(\pm)-没食子儿茶素没食子酸酯(6)。化合物2对来源肿瘤细胞A2780具有较明显的细胞毒性(IC₅₀1.72 $\mu\text{mol} \cdot \text{L}^{-1}$)。结论:化合物1-6均为首次从该植物中分离获得。化合物2对来源肿瘤细胞A2780具有明显的细胞毒性。

中文关键词:羧基环烯 亮叶围涎树 三萜皂苷 黄烷 细胞毒性

Chemical constituents from the roots of *Pithecellobium lucidum* and their cytotoxic activity

Abstract:Six compounds were isolated from the roots of *Pithecellobium lucidum* by various chromatographic techniques such as column chromatography on silica gel and Sephadex LH-20, and preparative HPLC, and their structures were elucidated as julibroside A₂ (1), 3-, 16 α -D-glucopyranosyl-16 α -hydroxyolean-12-en-28-oic acid (2), galloyl acid (3), ethyl gallate (4), (+)-catechin (5), (-)-gallicocatechin gallate (6) on the basis of spectroscopic data analysis. Compounds 1-6 were isolated from *Pithecellobium lucidum* for the first time. Compound 2 showed selective cytotoxic activity against the human cell lines A2780 with an IC₅₀ value of 1.72 $\mu\text{mol} \cdot \text{L}^{-1}$.

keywords:[Pithecellobium](#) [Pithecellobium lucidum](#) [triterpenoid saponin](#) [flavone](#) [cytotoxic activity](#)

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