

研究论文

广东石豆兰中的噁庚英和联苕类化合物

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摘要 从兰科植物广东石豆兰(*Bulbophyllum kwangtungense* Schlecht.)的乙酸乙酯部分分离得到了2个新的芪类化合物5-(2,3-二甲氧苯乙基)-6-甲基苯并[d][1,3]二氧戊环(1)和10,11-二氢-2,7-二甲氧基-3,4-亚甲二氧基二苯并[b,f]噁庚英(2)。药理活性实验结果证明, 化合物2对体外培养的Hela细胞有较强的抑制作用。

关键词 [广东石豆兰](#) [二氢二苯噁庚英](#) [联苕类化合物](#)

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Oxepine and Bibenzyl Compounds from *Bulbophyllum kwangtungense*

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Abstract Phytochemical investigation of the EtOAc extract of leaves and stems of *Bulbophyllum kwangtungense* Schlecht., belonging to the orchid family was carried out. Two new stilbenoids were isolated by repeat column chromatography and characterized: one is bibenzyl compound, 5-(2,3-dimethoxyphenethyl)-6-methylbenzo[d][1,3]dioxole(1), and the other dibenz[b,f]oxepine, 10,11-dihydro-2,7-dimethoxy-3,4-methylene-dioxy dibenzo[b,f]oxepine(2). Their structures were established on the basis of analyses of spectroscopic evidence, particularly by two-dimensional NMR spectroscopic analysis. Bibenzyl compound with a methyl group in the benzene ring is rarely found from natural sources. Natural oxepines are very rare, and most of them were reported to have good anti-tumor activities. In addition, anti-tumor activities of the new compounds were also evaluated. Among the compounds isolated, compound 2 showed anti-tumor activities with IC₅₀ value of 47.2 μg/mL *in vitro* against cultures of Hela cells.

Key words [Bulbophyllum kwangtungense](#) [Oxepine](#) [Bibenzyl compound](#)

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