

 中文标题 检索 跨刊检索

天然苯基异喹啉类抗肿瘤生物碱的筛选

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中文摘要:目的:寻找具有抗肿瘤活性的天然苯基异喹啉类生物碱。方法:本实验建立以DNA为靶标,运用离心超速和HPLC联用技术,从中药中筛选可能具有抗肿瘤活性的苯基异喹啉类生物碱活性成分的方法;并利用体外肿瘤细胞实验,对筛选出的化合物进行抗肿瘤活性验证和评价。结果:从博落回等3种中药中发现并鉴定了9种化合物与DNA有相互作用,有良好的细胞增殖抑制活性。结论:建立起来的方法能用于中药中具有抗肿瘤活性的天然苯基异喹啉类生物碱的筛选。

中文关键词:苯基异喹啉类生物碱 DNA 抗肿瘤 筛选

Screen for natural benzyloquinoline alkaloids against tumor

Abstract:Objective: To search for natural benzyloquinoline alkaloids against tumor. Method: In this study, taken DNA as target, a method was developed for screening of natural benzyloquinoline alkaloids against tumor from traditional Chinese medicine by the use of centrifugal ultrafiltration combined with HPLC technology. The anti-tumor activity for the compounds screened was evaluated *in vitro*. Result: Nine compounds interacted with DNA were discovered and identified from *Maclaya cordata*, *Chelidonium majus*, *Coptis chinensis*, and the proliferation of four types of human solid cancer cell lines was markedly inhibited by these compounds. Conclusion: The developed method was considered to be suitable for screening of natural benzyloquinoline alkaloids against tumor from traditional Chinese medicine.

keywords:benzyloquinoline alkaloids DNA anti-tumor screen

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