



可疑翼手参皂苷colochiroside A的抗肿瘤活性研究

投稿时间: 2010-02-23 责任编辑: 张宁宁 [点此下载全文](#)

引用本文: 张永娟,易杨华.可疑翼手参皂苷colochiroside A的抗肿瘤活性研究[J].中国中药杂志,2011,36(4):504.

DOI: 10.4268/cjcm20110429

摘要点击次数: 359

全文下载次数: 127

广告合作



作者中文名	作者英文名	单位中文名	单位英文名	E-Mail
张永娟	ZHANG Yongjuan	广东医学院 生理学教研室, 广东东莞 523808 第二军医大学 药学院 海洋药物研究中心, 上海 200433	Department of Physiology, Guangdong Medical College, Dongguan 523808, China Research Center for Marine Drugs, School of Pharmacy, Second Military Medical University, Shanghai 200433, China	
易杨华	YI Yanghua	第二军医大学 药学院 海洋药物研究中心, 上海 200433	Research Center for Marine Drugs, School of Pharmacy, Second Military Medical University, Shanghai 200433, China	ljdzj@126.com

中文摘要:目的:研究可疑翼手参体内三萜皂苷colochiroside A(CA)的体内外抗肿瘤活性。方法:采用MTT法检测三萜皂苷CA对6种体外培养肿瘤细胞(p388, HL-60, A-549, SpC-A4, MKN-28, SGC-7901)的增殖抑制活性;以小鼠肉瘤S180和小鼠肝癌H22为移植性肿瘤模型,观察CA的体内抗肿瘤活性及对免疫器官的影响。结果:CA对6种体外培养肿瘤细胞均显示显著抑制增殖作用,IC₅₀平均值为(3.61±0.55) mg·L⁻¹,对小鼠S180肉瘤的抑制率分别为36.4%,70.0%,对小鼠H22肝癌的抑制率分别为34.8%,43.9%,52.2%,对荷瘤小鼠的免疫器官未见明显影响。结论:可疑翼手参体内皂苷CA具有很强的体内外抗肿瘤活性,且不降低荷瘤宿主的器官指数,有望研发为种新型的抗肿瘤化合物。

中文关键词:可疑翼手参 三萜皂苷 colochiroside A MTT法 抗肿瘤活性

Studies on antitumor activities of triterpene glycoside colochiroside A from sea cucumber *Colochirus anceps*

Abstract:Objective: To study the antitumor activities of the triterpene glycoside colochiroside A (CA) from the sea cucumber *Colochirus anceps*. Method: The tests of antitumor activities *in vitro* and *in vivo* were applied to demonstrate the effect of CA. Result: The preliminary cytotoxic assay of CA exhibited significant cytotoxic activity against 6 types cultured tumor cell lines of p388, HL-60, A-549, SpC-A4, MKN-28, and SGC-7901, the mean of IC₅₀ were (3.61±0.55) mg·L⁻¹. The preliminary antitumor assay of CA indicated that this saponin exhibited high inhibiting activity against the H22 live cancer and the S180 sarcoma cells in mouse. The inhibition ratio to H22 liver cancer were 34.8%, 43.9% and 52.2%, while the ratio to S180 sarcoma were 36.4%, 70.0%, the immunoregulatory founction study indicated CA has not significant effect on the developments of thymus and spleen. Conclusion: The saponin CA exhibited remarkable antineoplastic activities *in vitro* and *in vivo*, and could not reduce the immunoregulatory founction of mice.

keywords: *Colochirus anceps* triterpene glycoside colochiroside A MTT method antitumor activities

[查看全文](#) [查看/发表评论](#) [下载PDF阅读器](#)