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中国中药杂志 China Journal of Chinese Materia Medica

蝎毒多肽提取物对化疗期间再增殖H22肿瘤组织 $HIF-1\alpha$ 和SDF-1/CXCR4表达的影响

投稿时间: 2010-07-04 责任编辑: 张宁宁 点此下载全文

引用本文: 王兆朗·张维东.武利在·贾青·王朝霞.张月英·宁云娜·蝎毒多肽提取物对化疗期间再增殖H22肿瘤组织 HIF-1α和SDF-DCXCR4表达的影响[J]-中国中药杂志;201,36(3):1803.

DOI: 10.4268/cjcmm20111324

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基金項目:国家自然科学基金項目(30873408):山东省自然科学基金項目(ZR2010HQ003):山东省科技攻关基金項目 (2008GG30002067)

中文摘要:目的: 研究化疗期间再增殖中H22肿瘤组织HIF-1α和SDF-1/CXCR4表达的变化及蝎毒多肽提取物(polypeptide extract fro

中文关键词:蝎毒多肽提取物 鉄氣诱导因子-1α 基质衍生因子-1 CXC 趋化因子受体4 再增殖 化疗

Effect of polypetide extract from scorpion venom(PESV) on expression of HIF-1 α and SDF-1/CXCR4 in repopulating H22 tumour tissue during chemotherapy treatment

AbstractsObjective: To study the expression of HIF-1a and SDF-1/CXCR4 in repopulating H22 tumor tissue and the mechanism of angiogenesis of polypeptide extract from scorpion venom (PESV) during chemotherapy treatment. Method: The expression of HIF-1a and SDF-1/CXCR4 in H22 tumor tissue was monitored by immunohistochemistry, and the expression level was determined by Qwin V3 image analyzing software. The correlation between HIF-1a and SDF-1 was analyzed. SDF-1 content was detected by ELISA. Result: HIF-1a expression was found no difference in model group between 14 d and 21 d, and up-regulated in 28 d. There was no change of HIF-1a expression was observed in low-does PESV group, the level of HIF-1a expression was high in 14 d and low in 21 d. ELISA detecting showed SDF-1 content increased slowly after time. The immunohistochemistry method got the same result with ELISA. Correlation analysis showed v=0.305. CXCR4 expression down-regulated in two PESV treated groups, and no difference was found between these two groups. Conclusion: HIF-1a and SDF-1 participated in VEGF expression and angiogenesis in tumor tissue during chemotherapy, while PESV could inhibit the expression of HIF-1a and SDF-1.

keywords:polypeptide extract from scorpion venom HIF-1a SDF-1 CXCR4 repopulation chemotherapy

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