

论文

从海南哥纳香中分离的一种新化合物——海南哥纳香醇甲的抗肿瘤作用

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摘要:

体外用细胞生长曲线测定法、MTT试验、软琼脂集落形成分析法,及体内对移植性肿瘤实验,研究了海南哥纳香醇甲(GHM-10)的抗肿瘤作用,结果表明:GHM-10对肿瘤细胞有较强的抑制作用,IC₅₀在2μg·ml⁻¹左右;对正常细胞影响较小,骨髓祖细胞的敏感性则更低;耐药的KB/VCR200细胞及其亲本KB细胞具有相似的敏感性。GHM-10对HL-60细胞无分化诱导作用。GHM-10对实体型肝癌H22小鼠、Lewis肺癌小鼠及腹水型S180小鼠均有明显的治疗作用。

关键词: 海南哥纳香醇甲 海南哥纳香 抗肿瘤作用

STUDIES ON THE ANTICANCER EFFECT OF HOWIINOL A, A NEW COMPOUND ISOLATED FROM GONIOTHALAMUS HOWII

He Jianhua; Ye Yumei and Xu Chengxiong

Abstract:

The effect of howiinol A (GHM-10) on the growth of several cancer and normal cells were studied, using the methods of cell growth curve determination, MTT test and soft-agar colony formation assay. The results showed that GHM-10 exhibited potent inhibitory effect on cancer cells with an IC₅₀ of 2 μg·ml⁻¹ approximately. Normal cells, especially bone marrow progenitor cells, were shown to be less sensitive to GHM-10. A drug resistant cell line, KB/VCR200, was found to be as sensitive as its parental KB cells. GHM-10 did not induce HL-60 cell differentiation. In murine transplantable tumors, GHM-10 was found to have significant therapeutic effect on mice bearing solid tumor hepatoma H22, Lewis lung carcinoma and S180 ascites.

Keywords: *Goniiothalamus howii* Anticancer effect Howiinol A

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