

论文

芳基三氮烯甲氧嘧啶选择性抗小鼠Lewis肺癌转移的作用

江春;李德华

天津医药科学研究所,天津

摘要:

本实验对比研究了芳香三氮烯甲氧嘧啶(ATMP)和环磷酰胺(CY)对小鼠Lewis肺癌的作用。ATMP在不影响原发瘤生长的同时,可明显减少自发性转移的发生,而CY对原发瘤及转移瘤都有抑制作用。³H-TdR部分参入实验证明,ATMP对Lewis肺癌的细胞毒作用很弱。ATMP对人工转移无影响;提前给药不影响自发性转移;不改变小鼠腹腔巨噬细胞Fc受体的活力。上述实验提示,ATMP具有选择性的抗转移作用,其作用环节可能是抑制肿瘤细胞从原发部位的脱落以致不能进入血液循环。

关键词: 芳基三氮烯甲氧嘧啶 Lewis肺癌 转移

SELECTIVELY ANTIMETASTATIC EFFECTS OF ARYLTRIAZENE METHOXYPYRIMIDINE ON LEWIS LUNG CARCINOMA

JIANG Chun and LI De-Hua

Abstract:

ATMP, 4 [p-(3,3-dimethyl-1-triazene) phenylsulfamide]-5,6-dimethoxypyrimidine was first synthesized by Tianjin Institute of Medical and Pharmaceutical Sciences. Effects of ATMP have been studied in comparison with those of cyclophosphamide (CY) in mice bearing Lewis lung carcinoma. At the dosages of 10, 20, and 40 mg/kg/d, ATMP was shown to inhibit the number and the weight of spontaneous pulmonary metastasis but showed no significant effect on the primary tumor. Antimetastatic effects were also demonstrated by histological examination. On the contrary, CY 18 mg/kg/d ip obviously inhibited the growth of both primary tumor and pulmonary metastasis, whereas under relatively lower dosage, no effects on the tumors of both locations were observed. The effects of the two agents on the fractional incorporation of ³H-TdR in tumor cells further indicated that at the dosage used in the experiment only ATMP was devoid of cytotoxic action for the primary tumor. The experiments also showed that ATMP did not modify the activity of Fc receptor of peritoneal macrophage in mice and did not reduce artificial metastasis. In the host pretreated with ATMP, no reduction of the formation of spontaneous metastasis was found. These data indicate that ATMP, differing from CY, has selective antimetastatic effects. It acts directly on tumor cells and presumably inhibits their release from primary tumor into the bloodstream.

Keywords: Lewis lung carcinoma Metastasis Aryltriazene methoxypyrimidine (ATMP)

收稿日期 1985-06-21 修回日期 网络版发布日期

DOI:

基金项目:

通讯作者:

作者简介:

参考文献:

本刊中的类似文章

- 1. 江春;张志尧;苏长海;李德华.芳基三氮烯甲氧嘧啶对小鼠Lewis肺癌转移的预防作用及形态学观察[J].药学报,1986,21(8): 623-626

文章评论 (请注意:本站实行文责自负, 请不要发表与学术无关的内容!评论内容不代表本站观点.)

扩展功能

本文信息

- Supporting info
- PDF (242KB)
- [HTML全文]
- 参考文献

服务与反馈

- 把本文推荐给朋友
- 加入我的书架
- 加入引用管理器
- 引用本文
- Email Alert
- 文章反馈
- 浏览反馈信息

本文关键词相关文章

- 芳基三氮烯甲氧嘧啶
- Lewis肺癌
- 转移

本文作者相关文章

- 江春
- 李德华

PubMed

- Article by
- Article by

反馈人	<input type="text"/>	邮箱地址	<input type="text"/>
反馈标题	<input type="text"/>	验证码	<input type="text"/> 6511