



## 蛇毒精氨酸酯酶Agkihp in对人鼻咽癌CNE-2细胞系MRP1表达的影响

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### Effect of Agkihp in-an Arginine Esterase from Venom on Expression of MRP1 in CNE-2 Cells

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**摘要** 目的探讨蛇毒精氨酸酯酶Agkihp in对人鼻咽癌CNE-2细胞系中多药耐药相关蛋白MRP1表达的影响,并试图阐明Agkihp in抑制CNE-2细胞的机制。方法用不同浓度的Agkihp in处理细胞72 h后,应用免疫细胞化学、Western blot、RT-PCR法检测MRP1在CNE-2细胞中的表达。结果不同浓度Agkihp in作用CNE-2细胞72 h后MRP1表达均降低,并呈现出一定的浓度依赖效应,显示Agkihp in可显著下调CNE-2细胞中MRP1表达。各加药组与不加Agkihp in组比较,差异具有统计学意义(P<0.05)。结论在人低分化鼻咽癌CNE-2细胞系中,Agkihp in能抑制MRP1的表达,并且随浓度的增大抑制作用增加,这可能是Agkihp in能降低鼻咽癌细胞活力的原因之一;Agkihp in抑制MRP1的表达提示在一定程度上可提高肿瘤细胞对化疗药物的敏感度。

**关键词:** 多药耐药相关蛋白1 精氨酸酯酶 鼻咽癌细胞

**Abstract:** Objective To explore the effect of Agkihp in on the expression of multidrug resistance associated protein 1(MRP1) in nasopharyngeal carcinoma CNE-2 cell line, and try to describe the mechanism of Agkihp in inhibiting CNE-2. Methods The cultured cells were treated with different concentrations of Agkihp in for 72 h. The expression level of MRP1 in CNE-2 cell line was assayed by immunocytochemistry, Western blot and RT-PCR. Results Comparing with Agkihp in absent group, the MRP1 expression levels in CNE-2 cells were reduced significantly after the treatment of different concentrations of Agkihp in (P<0.05), in a concentration-dependent manner, which shows that Agkihp in could significantly down-regulate the expression of MRP1 in CNE-2 cells. Conclusion Agkihp in can inhibit the expression of MRP1 in CNE-2 cells, which is likely to be one of reasons for Agkihp in inhibiting the cellular vitality of nasopharyngeal carcinoma cell, and be likely to enhance the sensitivity of CNE-2 cells to chemotherapeutic drugs to some extent.

**Key words:** Multidrug resistance associated protein 1 Arginine Esterase Nasopharyngeal carcinoma cell

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