

论著

8-硝基白杨素对人宫颈癌Hela细胞增殖和凋亡的影响

曾源¹, 陈忠东¹, 曹建国²

南华大学1.附属第一医院妇产科, 湖南 衡阳 421001; 2.肿瘤研究所, 湖南 衡阳 421001

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摘要

目的: 观察8-硝基白杨素(8-NOChR)抑制体外培养人宫颈癌Hela细胞增殖和诱导凋亡作用。方法: 体外培养人宫颈癌Hela细胞系细胞。MTT比色法测定Hela细胞增殖活性。软琼脂培养克隆形成法检测Hela细胞集落形成能力。AO/EB染色荧光显微镜观察Hela细胞凋亡形态学改变。DNA凝胶电泳观察梯形DNA条带。结果: MTT比色测定显示, 8-NOChR抑制Hela细胞增殖, 呈剂量依赖性。软琼脂培养克隆形成法检测表明, 8-NOChR显著抑制Hela细胞集落形成, 呈剂量依赖性。AO/EB染色荧光显微镜观察发现, 8-NOChR诱导Hela细胞呈现典型凋亡细胞形态特征。8-NOChR (30 μ mol/L) 处理Hela细胞72h, 琼脂糖凝胶电泳出现“梯形”DNA条带。结论: 8-NOChR具有抑制人宫颈癌Hela细胞增殖和诱导细胞凋亡作用

关键词 [宫颈癌](#); [白杨素](#); [8-硝基白杨素](#); [细胞凋亡](#)

分类号

Effect of 8-nitrochrysin on inhibition of growth and induction of apoptosis in human uterine cervix cancer Hela cells in vitro

ZENG Yuan¹, CHEN Zhong-dong¹, CAO Jian-guo²

1.First Affiliated Hospital of Nanhua University, Hengyang Hunan 421001;
2.Cancer Research Institute of Nanhua University, Hengyang Hunan 421001, China

Abstract

Objective To investigate the effect of 8-nitrochrysin(8-NOChR) on the inhibition of the growth and induction of apoptosis in human uterine cervix cancer Hela cells cultured in vitro. Methods Hela cells was cultured in vitro. MTT assay was used to determine the proliferation of Hela cells, soft agar clone-formation method was used to determine the growth of Hela cells, AO/EB fluorescence staining was used to observe the morphologic changes of apoptosis in Hela cell line. DNA agarose gel electrophoresis was used to test the apoptosis of Hela cell line. Results MTT assay showed 8-NOChR significantly suppressed proliferation of Hela cell line in a dose-dependent manner. Soft agar clone-formation assay showed 8-NOChR obviously inhibited clone-formation of Hela cells. Typical morphologic changes of apoptosis were observed after the treatment with 8-NOChR by fluorescence microscope using AO/EB staining. DNA ladder bands appeared in DNA agarose gel electrophoresis after the treatment with 8-NOChR at 30 μ mol/L for 72h. Conclusion 8-NOChR could inhibit the proliferation and induce the apoptosis of human uterine cervix cancer Hela cells.

Key words [uterine cervix cancer](#) [Chrysin](#) [8-nitrochrysin](#) [cell apoptosis](#)

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通讯作者 曹建国 caojianguo2005@yahoo.com.cn

作者个人主页 曾源¹;陈忠东¹;曹建国²

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