

论著

中药方剂1号对胃癌细胞体外生长及细胞周期的影响

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摘要 背景与目的: 探讨中药方剂1号对人胃癌细胞SGC-7901体外生长及细胞周期的影响。材料与方法: 四甲基偶氮唑蓝 (3-[4,5-dimethylthiazol-2-y1]-2,5 diphenyl tetrazolium bromide,MTT)还原法检测中药方剂1号对SGC-7901细胞增殖的影响; 流式细胞仪检测细胞周期时相分布。结果: 中药方剂1号生药能抑制SGC-7901的增殖。在实验浓度范围内, 随着剂量的增加, 抑制作用更加明显; 同一剂量下, 72h内药物作用时间越长, 抑制作用越明显。中药方剂1号作用48 h后, SGC-7901细胞的G0/G1期和S期的细胞减少, G2+M期的细胞增多。结论: 中药方剂1号能够抑制人胃癌细胞SGC-7901的体外增殖, 其作用机制可能与干扰细胞周期有关。

关键词 [中药方剂](#); [胃癌细胞](#); [增殖](#); [细胞周期](#)

Effects of Prescription of Traditional Chinese Medicine-1 on the Proliferation and Cell Cycle Arrest of Human Gastric Carcinoma Cell Line SGC-7901 in Vitro

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Abstract **BACKGROUND & AIM:** To investigate the effects of Prescription of Traditional Chinese Medicine-1(PTCM-1) on the proliferation and the cell cycle change arrest of human gastric carcinoma cell line SGC-7901 in vitro. **MATERIAL AND METHODS:** The proliferation of SGC-7901 cells was measured by 3-[4,5-dimethylthiazol-2-y1]-2,5 diphenyl tetrazolium bromide(MTT) colorimetric assay. The cell cycle phase was analysed by flow cytometry. **RESULTS:** PTCM-1 inhibited the proliferation of SGC-7901 cells in dose-dependent manner and in time-dependent manner from 0 h to 72 h. After treated by PTCM-1 for 48 h, the SGC-7901 cells were accumulated in G2+M phase in the cell cycle, and the ratio of cells in G0/G1, S phase was decreased. **CONCLUSION:** PTCM-1 can inhibit proliferation of SGC-7901 cells. It interferences into the cell cycle may be one of mechinism of its antitumor activity.

Keywords [prescription of traditional Chinese medicine](#) [human gastric carcinoma cell proliferation](#) [cell cycle](#)

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