[Inhibitory effect of emodin on proliferation of human lung adenocarcinoma cells in vitro].

[Article in Chinese]

Source
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Abstract

OBJECTIVE:
To investigate the anti-tumor mechanisms of emodin on human lung adenocarcinoma cell line Anip973 (LACC).

METHODS:
The influence of emodin of different concentration at different time on LACC proliferation were determined and compared using MTT colorimeric assay and cell growth curve assay. And the cell apoptotic rate was determined by flow cytometry and analyzed with electronic microscope.

RESULTS:
In a certain range, the higher concentration and longer acting time of emodin could induce the stronger inhibitory effect on tumor cell growth and the higher apoptotic rate. The proliferation inhibitory rate reached 90% after LACC being treated with emodin 60 micromol/L for 72h.

CONCLUSION:
Emodin can significantly inhibit proliferation of human LACC, showing dose-effect and time-effect relationship.

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