

综述

## 组蛋白去乙酰化酶抑制剂与细胞周期和凋亡关系的研究进展

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摘要

关键词 [组蛋白去乙酰化酶抑制剂](#) [细胞周期](#) [细胞凋亡](#)

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## Role of histone deacetylase inhibitors in cell growth arrest and apoptosis

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### Abstract

<FONT face=Verdana>The acetylation status of histones and non-histone proteins regulate chromatin remodeling and gene transcription.Histone deacetylase inhibitors (HDACi),a promising therapeutic approach to cancer,are characteristic of causing accumulation of acetylated histones and other transcriptional regulators.Recent studies demonstrate that HDACi is able to arrest the cell cycle in G<SUB>1</SUB> and/or G<SUB>2</SUB> phase,and to induce apoptosis in a variety form of transformed cells with little toxicity to normal cells.However,the exact antitumor mechanisms of HDACi are still unclear.This review provides an update on the current knowledge of HDACi with a focus on HDACi-regulated cell growth arrest and apoptosis.</FONT>

**Key words** [Histone deacetylase inhibitors](#) [Cell cycle](#) [Apoptosis](#)

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