

Decitabine

货号: D2608

储存条件: 粉末-20°C 可保存 3 年; 液体-80°C 可保存 12 月。

产品描述

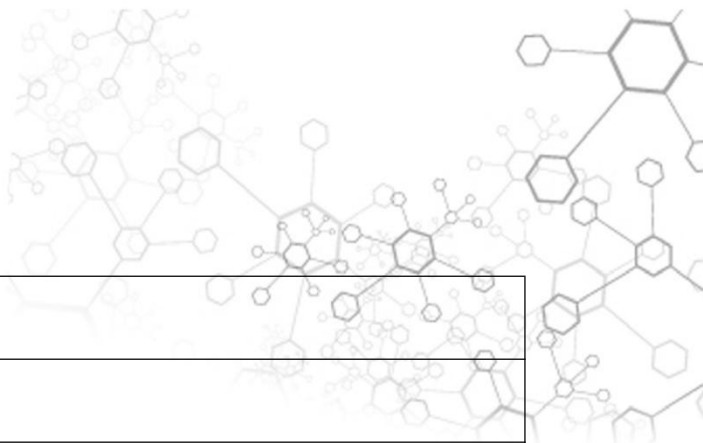
The DNA methyltransferase (DNMT) family are enzymes that can mediate the DNA methylation. Inhibiting the DNMTs have shown particular promise in reducing the formation of tumors. The decitabine is a potent inhibitor of the DNA methylation with IC50 value of 100 and 10 ng/ml for 72 and 96h of exposure on both HL-60 and KG1a leukemic cells. The human aortic smooth muscle cells (HASMCs) were treated with decitabine for 48 hours. The DNMT1 expression measured by western blotting assay in the nuclear fraction was reduced by the decitabine. The expression of the osteogenic genes ALP, Max2, BMP2, Pit-1, SM22 and -SMA in HASMCs measured by RT-qPCR was increased by decitabine. The hyperoxia-induced lung injury Sprague-Dawley rats were injected with decitabine at a dose of 0.5 mg/kg/day for 14 days. The survival rate of the treatment group was significantly higher than the hyperoxia group. The P16 methylation rate in the lung tissues measured by PCR was induced by the hyperoxia and the decitabine could effectively reverse the hypermethylation of P16.

作用机制

Decitabine could combine with DNA during DNA replication and form covalent complexes with the DNMT1. Therefore, the methyl transfer activity of the enzyme is inhibited.

储存液制备	质量	1 mg	5 mg	10 mg
	1 mM	4.3820 mL	21.9101 mL	43.8202 mL
	5 mM	0.8764 mL	4.3820 mL	8.7640 mL
	10 mM	0.4382 mL	2.1910 mL	4.3820 mL





产品信息

CAS号	2353-33-5	
分子式	$C_8H_{12}N_4O_4$	
分子量	228.21	
溶解度	DMSO	43.0 mg/mL (188.4 mM)
	Ethanol	Insoluble

