JNJ-16241199

Cat. No.:	HY-10226	
CAS No.:	604769-01-9	
Molecular Formula:	C ₁₉ H ₁₉ N₅O₄S	, o
Molecular Weight:	413.45	
Target:	Apoptosis; HDAC	
Pathway:	Apoptosis; Cell Cycle/DNA Damage; Epigenetics	~ ∦ Он
Storage:	Please store the product under the recommended conditions in the Certificate of	
	Analysis.	

	ту	
Description	JNJ-16241199 is an orally activ and 23 nM for HDAC1 and HDA expression of p21 ^{waf1} , ^{cip1} in A activity in a broad spectrum or	ve, selective hydroxamate-based histone deacetylase (HDAC) inhibitor, with the IC ₅₀ of 3.3 nM C8, respectively. JNJ-16241199 induces histone 3 acetylation and strongly increases the 2780 ovarian carcinoma cells. JNJ-16241199 induces cell apoptosis and shows anticancer f human malignancies. JNJ-16241199 can be used for cancer study ^[1] .
IC ₅₀ & Target	HDAC1 3.3 nM (IC ₅₀)	HDAC8 23 nM (IC ₅₀)
In Vitro	JNJ-16241199 inhibits proliferation with comparable potency in acute lymphoblastic leukaemia (ALL), AML, chronic lymphoblastic leukaemia (CLL), chronic myeloid leukaemia (CML), lymphoma and myelomatumour cells (IC ₅₀ values = 15–486 nM) ^[1] . JNJ-16241199 inhibits the Primary human mammary epithelial cell (HMEC) proliferation with the IC ₅₀ of 32 nM, and is insensitive to quiescent, non-proliferative HMEC cells (IC ₅₀ = 7815 nM) ^[1] . JNJ-16241199 (0.1, 0.3, 1 µM, 24-48 h) induces apoptosis and inhibits angiogenesis in A2780 cell line ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Cycle Analysis ^[1]	
	Cell Line:	Human A2780 ovarian carcinoma cells
	Concentration:	0, 0.1, 0.3, 1 μΜ
	Incubation Time:	24 h or 48 h
	Result:	Decreased in S phase at 300 nM, with a parallel increase in G1 phase, but increased in the sub-G1 fraction of cells at the 1 μ M after 24 h. Increased in sub-G1 phase at all active concentrations starting from 100 nM after 48 h.
In Vivo	NJ-16241199 (10-40 mpk/day for 28 days, p.o.) inhibits the growth of A2780 ovarian, H460 lung and HCT116 colon arcinomas orthotopic xenograft tumor models ^[1] . ICE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Human A2780, H460 and HCT116 orthotopic xenograft tumor models ^[1]



Dosage:	10-40 mpk/day for 28 days
Administration:	Oral gavage (p.o.)
Result:	Induced H3 acetylation and p21 ^{waf1} , ^{cip1} promoter activity in A2780 ovarian tumour tissu
	Decreased tumour volume in three orthotopic xenograft tumor models.
	Reached maximal decrease in final tumour volume to 76–87% in human A2780 orthotopi

REFERENCES

[1]. Arts J, et al. R306465 is a novel potent inhibitor of class I histone deacetylases with broad-spectrum antitumoral activity against solid and haematological malignancies. Br J Cancer. 2007;97(10):1344-1353.

Caution: Product has not been fully validated for medical applications. For research use only.

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA