## 4-Iodo-SAHA

®

MedChemExpress

Cat. No.:	HY-124007		
CAS No.:	1219807-87-0		
Molecular Formula:	C <sub>14</sub> H <sub>19</sub> IN <sub>2</sub> O <sub>3</sub>		,
Molecular Weight:	390.22		
Target:	HDAC	HO HO HO	
Pathway:	Cell Cycle/DNA Damage; Epigenetics		
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.		

BIOLOGICAL ACTIV				
Description		rally active class I and class II histone deacetylase (HDAC) inhibitor with EC <sub>50</sub> s of 1.1, 0.95, 0.12, 0.24, 3, HT29, U937, JA16 and HL60 cell lines, respectively. 4-Iodo-SAHA (1k) can be used for the research		
In Vitro	4-Iodo-SAHA (0.1-100 μM; 48 h) inhibits Skbr3, HT29, U937, JA16 and HL60 cell lines <sup>[1]</sup> . 4-Iodo-SAHA (2 μM; 6-24 h) affects acetylated H4 and p21 levels in SKBR3 cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Proliferation Assay <sup>[1]</sup>			
	Cell Line:	SKBR3, HT29, U937, JA16 and HL60 cell lines		
	Concentration:	0.1-100 μΜ		
	Incubation Time:	48 h		
	Result:	Inhibited SKBR3, HT29, U937, JA16 and HL60 cell lines with $EC_{50}$ s of 1.1, 0.95, 0.12, 0.24, 0.85 and 1.3 $\mu$ M , respectively. Showed 10-fold potent as an inhibitor of U937 cell line compared to SAHA.		
	Western Blot Analysis <sup>[1]</sup>			
	Cell Line:	SKBR3-breast-derived cell line		
	Concentration:	2 μΜ		
	Incubation Time:	6, 12 and 24 h		
	Result:	Time-dependently up regulated histone H4 acetylation and p21/WAF1 cell cycle inhibitor accumulation in SKBR3 cells.		
In Vivo	toxicity <sup>[1]</sup> .	g/kg; p.o. five times a week for two weeks) compares to SAHA-treated and control mice with similar ntly confirmed the accuracy of these methods. They are for reference only.		

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## Product Data Sheet

Animal Model:	8-week-old fvb mice <sup>[1]</sup>
Dosage:	50 mg/kg
Administration:	Oral gavage; 50 mg/kg five times per week; for 2 weeks
Result:	Compared to both SAHA-treated and control mice with similar body weights and hematological counts.

## REFERENCES

[1]. Salmi-Smail C, et al. Modified cap group suberoylanilide hydroxamic acid histone deacetylase inhibitor derivatives reveal improved selective antileukemic activity. J Med Chem. 2010 Apr 22;53(8):3038-47.

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

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