



SAHA (Vorinostat)

Data Sheet

Catalog Number:	MC11065	Product Type:	Small Molecule
Bio-Activity:	HDAC inhibitor	CAS #:	149647-78-9
Research Categories:	Epigenetics, cell death, stem cells, cancer	Chemical Name:	Suberoylanilide-hydroxamic acid
Solubility:	Soluble in DMSO (up to 50 mg/ml) or in Ethanol (up to 2 mg/ml).	Molecular Formula:	C14H20N2O3
Purity:	> 98%	Molecular Weight:	264.3
Format:	Powder	Ship Temp:	Ambient
Storage:	Room Temperature		

Application Notes

Description/Data:

Potent and selective histone deacetylase inhibitor [1]. Induces apoptosis in a variety of tumor cell lines (IC50 = 3-8 μ M) [2]. Synergizes with kinase inhibitors to kill CNS tumor cells [3]. Prevents diabetes in a mouse model by immunoregulation and β -cell protection [4]. Induces neuronal differentiation in DKFZ-EP1NS cells, a cell line which displays stem cell features such as self-renewal capacity [5]. Neurotrophic activity [6]. Cell permeable.

References:

- 1) JA Vrana et al. Oncogene 1999 18:7016
- 2) LM Butler et al. Proc. Natl. Acad. Sci. USA 2002 99:11700
- 3) Y Tang et al. Cancer Biol. Ther. 2012 13:567
- 4) DP Christensen et al. Proc. Natl. Acad. Sci. USA 2014 111:1055
- 5) T Milde et al. Acta Neuropathol. 2011 122:637
- 6) S Shukla et al. Mol. Cell. Neurosci. 2016 77:11

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