



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:	C ₁₄ H ₂₀ N ₂ O ₃
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 μM) [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

FOR RESEARCH USE ONLY

NEUROMICS' REAGENTS ARE FOR IN VITRO AND CERTAIN NON-HUMAN IN VIVO EXPERIMENTAL USE ONLY AND NOT INTENDED FOR USE IN ANY HUMAN CLINICAL INVESTIGATION, DIAGNOSIS, PROGNOSIS, OR TREATMENT. THE ABOVE ANALYSES ARE MERELY TYPICAL GUIDES. THEY ARE NOT TO BE CONSTRUED AS BEING SPECIFICATIONS. ALL OF THE ABOVE INFORMATION IS, TO THE BEST OF OUR KNOWLEDGE, TRUE AND ACCURATE. HOWEVER, SINCE THE CONDITIONS OF USE ARE BEYOND OUR CONTROL, ALL RECOMMENDATIONS OR SUGGESTIONS ARE MADE WITHOUT GUARANTEE, EXPRESS OR IMPLIED, ON OUR PART. WE DISCLAIM ALL LIABILITY IN CONNECTION WITH THE USE OF THE INFORMATION CONTAINED HEREIN OR OTHERWISE, AND ALL SUCH RISKS ARE ASSUMED BY THE USER. WE FURTHER EXPRESSLY DISCLAIM ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.-V2/08/2012