

Hello Bio, Inc.  
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500  
F. 609-228-4994

customercare-usa@helloworldbio.com



# DATASHEET

## SAHA

### Product overview

<b>Name</b>	SAHA
<b>Cat No</b>	HB1396
<b>Alternative names</b>	Vorinostat; Suberoylanilide hydroxamic acid
<b>Biological action</b>	Inhibitor
<b>Purity</b>	>98%
<b>Description</b>	HDAC inhibitor


### Biological Data

<b>Biological description</b>	Class I and II histone deacetylase (HDAC) inhibitor (IC <sub>50</sub> values are 10 and 20 nM for HDAC1 and HDAC3 respectively).  Induces accumulation of acetylated histones (H2A, H2B, H3 and H4 in transformed cultured cells).  Has a variety of actions - suppresses cell growth in various cancer cell lines, induces apoptosis and activates autophagy. Also reduces pro-inflammatory cytokine production. Additionally shows anti-inflammatory, anti-retroviral, growth inhibitory and anti-cancer actions.
-------------------------------	---

### Solubility & Handling

<b>Storage instructions</b>	-20 °C
<b>Solubility overview</b>	Soluble in DMSO (100mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Chemical name</b>	<i>N</i> -Hydroxy- <i>N</i> -phenyloctanediamide
<b>Molecular Weight</b>	264.32
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>14</sub> H <sub>20</sub> N <sub>2</sub> O <sub>3</sub>
<b>CAS Number</b>	149647-78-9
<b>PubChem identifier</b>	5311
<b>SMILES</b>	O=C(CCCCCC(=O)N)NC1=CC=CC=C1
<b>InChIKey</b>	WAEXFXRVDQXREF-UHFFFAOYSA-N

### References

**Suberoylanilide hydroxamic acid, an inhibitor of histone deacetylase, suppresses the growth of prostate cancer cells in vitro and in vivo.**

Butler LM *et al* (2000) Cancer Res 60(18)

**PubMedID**

11016644

**The antitumor histone deacetylase inhibitor suberoylanilide hydroxamic acid exhibits antiinflammatory properties via suppression of cytokines.**

Leoni F *et al* (2002) Proc Natl Acad Sci U S A 99(5)

**PubMedID**

11867742

**Distinct pharmacological properties of second generation HDAC inhibitors with the benzamide or hydroxamate head group.**

Beckers T *et al* (2007) Int J Cancer 121(5)

**PubMedID**

17455259

**The histone deacetylase inhibitor vorinostat (SAHA) increases the susceptibility of uninfected CD4+ T cells to HIV by increasing the kinetics and efficiency of postentry viral events.**

Lucera MB *et al* (2014) J Virol 88(18)

**PubMedID**

25008921

---