

## NIH AIDS Reagent Program

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## **DATA SHEET**

SAHA (Vorinostat) Reagent:

Catalog Number: 12130

Lot Number: 110091

Release Е Category:

Provided: 20 mg

N1-hydroxy-N8-phenyl-octanediamide **Chemical Name:** 

Synonyms: Suberoylanilide Hydroxamic Acid, Vorinostat, Zolina<sup>TM</sup>

**Empirical** 

Formula:

C<sub>14</sub>H<sub>20</sub>N<sub>2</sub>O<sub>3</sub>

**HPLC Purity:** >98%

264.3 Molecular

Weight:

**CAS Num:** 149647-78-9

Solubility:

SAHA is soluble in organic solvents such as ethanol (250  $\mu$ g/mL); and in DMSO, and dimethyl formamide (DMF), at approximately 20 mg/mL. For maximum solubility in aqueous buffers, SAHA should first be dissolved in DMSO and then diluted in aqueous buffer of choice. SAHA has an approximate solubility of 0.5 mg/mL in a 1:1 solution of DMSO:PBS (7.2). Storage in aqueous buffer is not recommended for longer than

one day.

ALL RECIPIENTS OF THIS MATERIAL MUST COMPLY WITH ALL APPLICABLE BIOLOGICAL, CHEMICAL, AND/OR RADIOCHEMICAL SAFETY STANDARDS INCLUDING SPECIAL PRACTICES, EQUIPMENT, FACILITIES, AND REGULATIONS. NOT FOR USE IN HUMANS.

REV: 07/24/2018 Page 1 of 2 Mechanical Action: SAHA is a histone deacetylase (HDAC) inhibitor that binds directly to the catalytic site of the enzyme thereby blocking substrate access. It inhibits class I and II HDACs at around 50 nM and arrests cell growth in a wide variety of transformed cells in culture at 2.5-5.0  $\mu$ M (1). SAHA is currently in advanced clinical trials for the treatment of cancer.

**WARNING:** The toxicological properties of this product have not been fully evaluated. This material may be irritating to the mucous membranes and upper respiratory tract. May be harmful by inhalation, ingestion, or skin absorption. May cause eye, skin, or respiratory system irritation.

MSDS: SAHA (Vorinostat)

Recommended Storage:

-20°C [Stable at -20°C for 2 years; Expires 7/30/2012]

Contributor: NIAID, DAIDS

**References:** Marks PA, and Breslow R. Dimethyl sulfoxide to vorinostat: Development of this histone

deacetylase inhibitor as an anticancer drug. Nature Biotechnology 25(1), 84-90 (2007).

**NOTE:** Acknowledgment for publications should read "The following reagent was obtained

through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: SAHA (Vorinostat)

from NIAID, DAIDS (cat# 12130).'

This compound is for laboratory research use ONLY: NOT for admistristation to

humans. NOT for human or veterninary diagnostic or therapeutic use.

Last Updated July 24, 2018

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