

Product Name: SAHA

Catalog No.: 4652

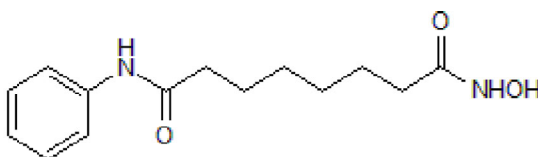
Batch No.: 4

CAS Number: 149647-78-9

IUPAC Name: *N*-Hydroxy-*N*-phenyloctanediamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₂₀N₂O₃
Batch Molecular Weight: 264.32
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM
 ethanol to 5 mM with gentle warming
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.62	7.63	10.6
Found	63.48	7.53	10.59

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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CAS Number: 149647-78-9

IUPAC Name: *N*-Hydroxy-*N*-phenyloctanediamide

Description:

SAHA inhibits Class I and II histone deacetylases (HDACs); induces accumulation of acetylated histones H2A, H2B, H3 and H4 in transformed cultured cells. Suppresses cell growth in a range of cancer cell lines; induces apoptosis in cutaneous T cell lymphoma cells in vitro. Activates autophagy. SAHA increases efficiency of transcription factor-induced reprogramming of mouse embryonic fibroblasts (MEF) to induced pluripotent stem cells (iPSC). Enhances adeno-associated virus transduction of HeLa cells. Also induces activation and replication of latent HIV in vitro.

Physical and Chemical Properties:

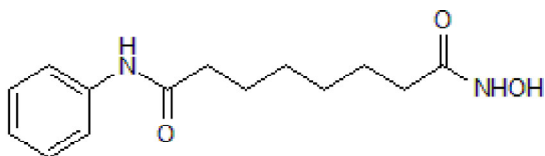
Batch Molecular Formula: C₁₄H₂₀N₂O₃

Batch Molecular Weight: 264.32

Physical Appearance: Off White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Galluzzi *et al* (2017) Pharmacological modulation of autophagy: therapeutic potential and persisting obstacles. *Nat.Rev.Drug.Discov.* **16** 487. PMID: 28529316.

Nicolson *et al* (2016) Identification and validation of small molecules that enhance recombinant adeno-associated virus transduction following high-throughput screens. *J.Virol.* **90** 7019. PMID: 27147738 .

Narasipura *et al* (2014) Epigenetic regulation of HIV-1 latency in astrocytes. *J.Virol.* **88** 3031. PMID: 24352441.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 5 mM with gentle warming

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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