TOCRIS
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Print Date: Jan 14th 2016

# Certificate of Analysis

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**Product Name:** **SBHA** **Catalog No.: 3810** **Batch No.: 1**

CAS Number: 38937-66-5

IUPAC Name: *N*,*N*'-Dihydroxyoctanediamide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** $C_8H_{16}N_2O_4$

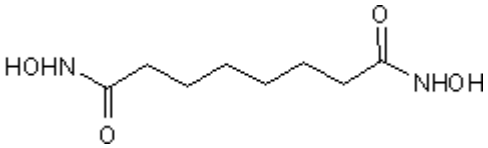
**Batch Molecular Weight:** 204.22

**Physical Appearance:** White solid

**Solubility:** water to 100 mM
DMSO to 100 mM

**Storage:** Store at +4°C

**Batch Molecular Structure:**




## 2. ANALYTICAL DATA

**TLC:** $R_f$ = 0.25 (Chloroform:Methanol [4:1])

**$^1$H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

| | Carbon | Hydrogen | Nitrogen |
|---|---|---|---|
| Theoretical | 47.05 | 7.9 | 13.71 |
| Found | 47.15 | 7.85 | 13.55 |



**bio-techne.com**
info@bio-techne.com
techsupport@bio-techne.com

**North America**
Tel: (800) 343 7475

**China**
info.cn@bio-techne.com
Tel: +86 (21) 52380373

**Europe Middle East Africa**
Tel: +44 (0)1235 529449

**Rest of World**
www.tocris.com/distributors
Tel:+1 612 379 2956

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**Description:**

Histone deacetylase (HDAC) inhibitor ($ID_{50}$ values are 0.25 and 0.3 µM for HDAC1 and HDAC3 respectively). Potentiates the cytostatic effects of 5-Fluorouracil (Cat. No. 3257) in colorectal cancer cells.

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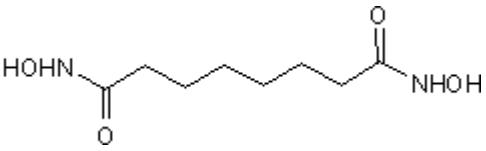


**Storage:** Store at +4°C

**Solubility & Usage Info:**

water to 100 mM
DMSO to 100 mM

**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. Our standard recommendations are:

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.

**References:**

**Richon** *et al* (1998) A class of hybrid polar inducers of transformed cell differentiation inhibits histone deacetylases. Proc.Natl.Acad.Sci.U.S.A ***95*** 3003. PMID: 9501205.

**Brinkmann** *et al* (2001) Histone hyperacetylation induced by histone deacetylase inhibitors is not sufficient to cause growth inhibition in human dermal fibroblasts. J.Biol.Chem. ***276*** 22491. PMID: 11304533.

**Zhang** *et al* (2004) The histone deacetylase inhibitor suberic bishydroxamate regulates the expression of multiple apoptotic mediators and induces mitochondria-dependent apoptosis of melanoma cells. Mol.Cancer.Ther. ***3*** 425. PMID: 15078986.