

## Certificate of Analysis

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**Product Name:** Salermide

**Catalog No.:** 4127

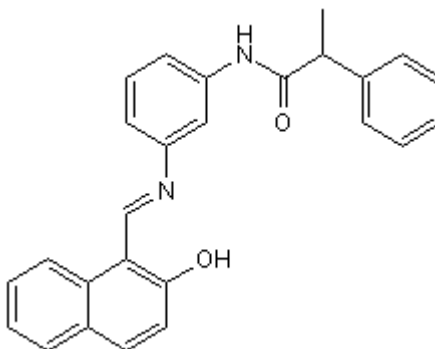
**Batch No.:** 1

**CAS Number:** 1105698-15-4

**IUPAC Name:** *N*-[3-[[[(2-Hydroxy-1-naphthalenyl)methylene]amino]phenyl]- $\alpha$ -methylbenzeneacetamide

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:**  $C_{26}H_{22}N_2O_2 \cdot \frac{1}{4}H_2O$   
**Batch Molecular Weight:** 398.97  
**Physical Appearance:** Yellow solid  
**Solubility:** DMSO to 100 mM  
ethanol to 5 mM with gentle warming  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 98.3% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	78.43	5.68	7.02
Found	78.61	5.66	7.09

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

## Product Information

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### Description:

SIRT1 and SIRT2 inhibitor. Exhibits a stronger inhibitory effect on SIRT2 than on SIRT1 in vitro. Induces the reactivation of proapoptotic genes repressed by SIRT1 and causes massive apoptosis in cancer cells within 24 hours.

### Physical and Chemical Properties:

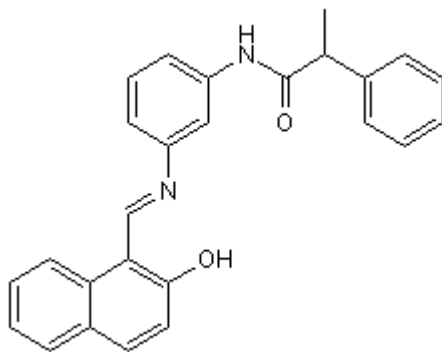
Batch Molecular Formula: C<sub>26</sub>H<sub>22</sub>N<sub>2</sub>O<sub>2</sub>·¼H<sub>2</sub>O

Batch Molecular Weight: 398.97

Physical Appearance: Yellow solid

**Minimum Purity:** >98%

### Batch Molecular Structure:



**Storage:** Store at +4°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. 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:

**Mai et al** (2005) Design, synthesis, and biological evaluation of sirtinol analogues as class III histone/protein deacetylase (sirtuin) inhibitors. *J.Med.Chem.* **48** 7789. PMID: 16302818.

**Lara et al** (2009) Salermide, a sirtuin inhibitor with a strong cancer-specific proapoptotic effect. *Oncogene* **28** 781. PMID: 19060927.

**Pasco et al** (2010) Characterization of sirtuin inhibitors in nematodes expressing a muscular dystrophy protein reveals muscle cell and behavioral protection by specific sirtinol analogues. *J.Med.Chem.* **53** 1407. PMID: 20041717.

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