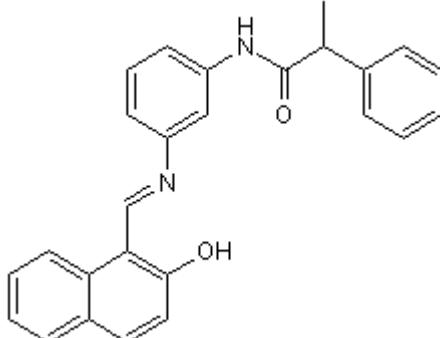


Certificate of Analysiswww.tocris.com**Product Name:** Salermide**Catalog No.:** 4127**Batch No.:** 1

CAS Number: 1105698-15-4

IUPAC Name: N-[3-[(2-Hydroxy-1-naphthalenyl)methylene]amino]phenyl]- α -methylbenzeneacetamide**1. PHYSICAL AND CHEMICAL PROPERTIES****Batch Molecular Formula:** C₂₆H₂₂N₂O₂. $\frac{1}{4}$ H₂O**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**¹H 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

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Product Name: **Salermide**

CAS Number: 1105698-15-4

IUPAC Name: N-[3-[(2-Hydroxy-1-naphthalenyl)methylene]amino]phenyl]- α -methylbenzeneacetamide

Catalog No.: 4127

Batch No.: 1

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:

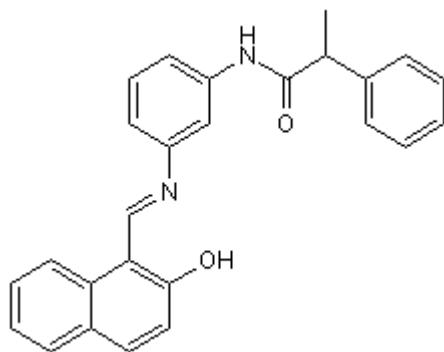
Batch Molecular Formula: C₂₆H₂₂N₂O₂. $\frac{1}{4}$ H₂O

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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