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Print Date: Feb 18th 2016

Certificate of Analysis

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Product Name: **Splitomicin** **Catalog No.: 1542** **Batch No.: 3**

CAS Number: 5690-03-9

IUPAC Name: 1,2-Dihydro-3*H*-naphtho[2,1-*b*]pyran-3-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{13}H_{10}O_2$

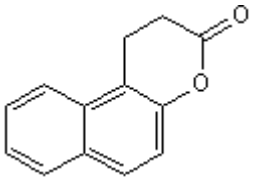
Batch Molecular Weight: 198.22

Physical Appearance: White solid

Solubility: DMSO to 100 mM
ethanol to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.7 (Dichloromethane)

HPLC: Shows 97.7% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	78.77	5.08	
Found	78.69	5.11	0.1

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CAS Number: 5690-03-9

IUPAC Name: 1,2-Dihydro-3*H*-naphtho[2,1-*b*]pyran-3-one

Description:

Inhibitor of Sir2p (IC_{50} = 60 µM), an NAD^+-dependent Sir2 family deacetylase required for chromatin-dependent silencing in yeast.

Physical and Chemical Properties:

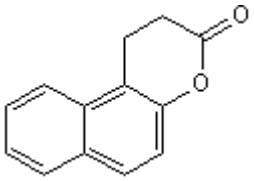
Batch Molecular Formula: $C_{13}H_{10}O_2$

Batch Molecular Weight: 198.22

Physical Appearance: White solid

Minimum Purity: >97%

Batch Molecular Structure:



Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 100 mM

CAUTION - Whilst supplied of high purity, this product may degrade over time, particularly when in solution. Therefore as a precautionary measure we recommend that the solid material be stored at +4°C away from light, and that solutions, once made up, are stored frozen and used within one week.

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:

Bedalov *et al* (2001) Identification of a small molecule inhibitor of Sir2p. Proc.Natl.Acad.Sci.U.S.A. ***98*** 15113. PMID: 11752457.

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