bio-techne
TOCRIS

Print Date: Apr 22nd 2024

Certificate of Analysis

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Product Name: **Okadaic acid** **Catalog No.: 1136** **Batch No.: 20**

CAS Number: 78111-17-8

IUPAC Name: 9,10-Deepithio-9,10-didehydroacanthifolicin

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{44}H_{68}O_{13}$

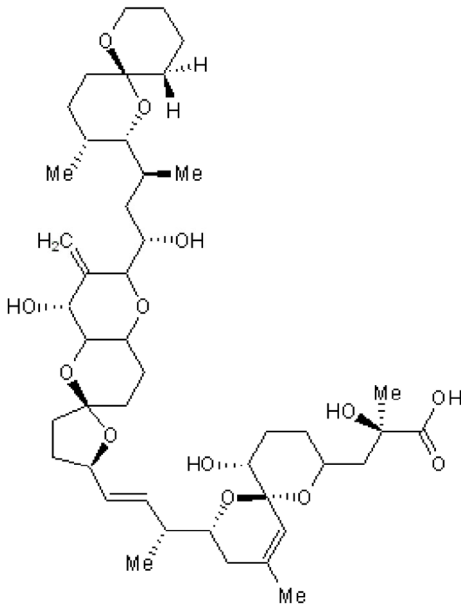
Batch Molecular Weight: 805.01

Physical Appearance: White lyophilisate

Solubility: DMSO to 40 mg/ml

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.2% purity

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

Product Name: **Okadaic acid** **Catalog No.: 1136** **20**

CAS Number: 78111-17-8

IUPAC Name: 9,10-Deepithio-9,10-didehydroacanthifolicin

Description:

Okadaic acid is a potent inhibitor of protein phosphatase 1 (IC_{50} = 3 nM) and protein phosphatase 2A (IC_{50} = 0.2-1 nM). Displays > 100,000,000-fold selectivity over PP2B and PP2C. Tumor promoter. Shown to activate atypical protein kinase C in adipocytes.

Physical and Chemical Properties:

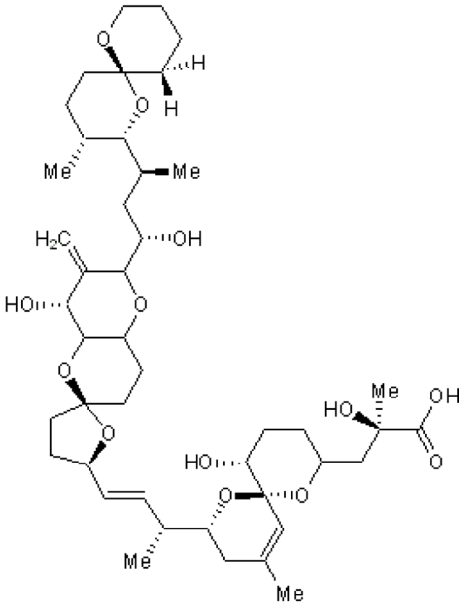
Batch Molecular Formula: $C_{44}H_{68}O_{13}$

Batch Molecular Weight: 805.01

Physical Appearance: White lyophilisate

Minimum Purity: ≥90%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 40 mg/ml

This product is supplied in lyophilized form. It may appear as a solid, gel or film and be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

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.

References:

McCluskey *et al* (2002) Serine-threonine protein phosphatase inhibitors: development of therapeutic strategies. J.Med.Chem. ***45*** 1151. PMID: 11881984.

Standaert *et al* (1999) Okadaic acid activates atypical protein kinase C (ζ/λ) in rat and 3T3/L1 adipocytes. J.Biol.Chem. ***274*** 14074. PMID: 10318822.

Nuydens *et al* (1998) Okadaic acid-induced apoptosis in neuronal cells: evidence for an abortive mitotic attempt. J.Neurochem. ***70*** 1124. PMID: 9489733.

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