bio-techne
TOCRIS

Print Date: Dec 18th 2024

Certificate of Analysis

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Product Name:	**Filipin III**	**Catalog No.: 6250**	**Batch No.: 6**

CAS Number: 480-49-9

IUPAC Name: (3*R*,4*S*,6*S*,8*S*,10*R*,12*R*,14*R*,16*S*,17*E*,19*E*,21*E*,23*E*,25*E*,27*S*,28*R*)-4,6,8,10,12,14,16,27-Octahydroxy-3-[(1*R*)-1-hydroxyhexyl]-17,28-dimethyloxacyclooctacosa-17,19,21,23,25-pentaen-2-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{35}H_{58}O_{11}$

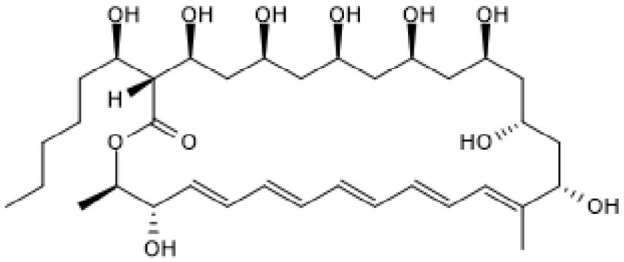
Batch Molecular Weight: 654.83

Physical Appearance: Light yellow solid

Solubility: DMSO to 5 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.3% purity

Mass Spectrum: Consistent with structure

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Description:

Key information: filipin III is a fluorescent cholesterol stain; polyene antibiotic. Used for: fluorescent cholesterol staining. Binds sterols in fungal membranes. Also inhibits formation of the pathological form of prion protein (PrP-res) from the normal membrane-bound (PrP-sen) form. Application: confocal microscopy. Properties and Photophysical Data: excitation and emission maxima (λ) are 405 nm and 420-480 nm, respectively.

Physical and Chemical Properties:

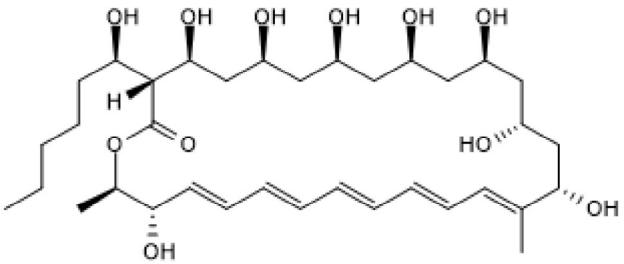
Batch Molecular Formula: $C_{35}H_{58}O_{11}$

Batch Molecular Weight: 654.83

Physical Appearance: Light yellow solid

Minimum Purity: ≥90%

Batch Molecular Structure:



Storage: Store at -20°C. This product is packaged under an inert atmosphere.

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 5 mM

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:

Pipalia *et al* (2006) Automated microscopy screening for compounds that partially revert cholesterol accumulation in Niemann-Pick C cells. J.Lipid Res. ***47*** 284. PMID: 16288097.

Marella *et al* (2002) Filipin prevents pathological prion protein accumulation by reducing endocytosis and inducing cellular PrP release. J.Biol.Chem. ***277*** 25457. PMID: 11994310.

Castanho *et al* (1992) Absorption and fluorescence spectra of polyene antibiotics in the presence of cholesterol. J.Biol.Chem. ***267*** 204. PMID: 1730589.

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