

Product Name: Filipin III

Catalog No.: 6250

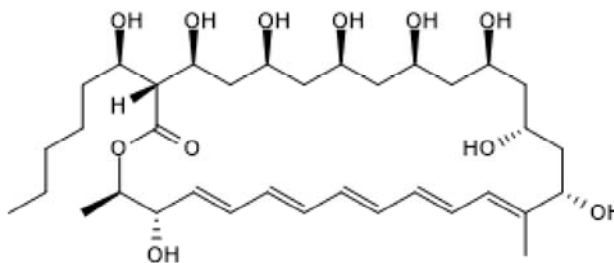
Batch No.: 2

CAS Number: 480-49-9

IUPAC Name: (3R,4S,6S,8S,10R,12R,14R,16S,17E,19E,21E,23E,25E,27S,28R)-4,6,8,10,12,14,16,27-Octahydroxy-3-[(1R)-1-hydroxyhexyl]-17,28-dimethyloxacyclooctacos-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:	White solid
Solubility:	DMSO to 5 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 99% purity
¹H NMR:	Consistent with structure

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

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Description:

Polyene antibiotic. 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. Also fluorescent cholesterol stain.

Physical and Chemical Properties:

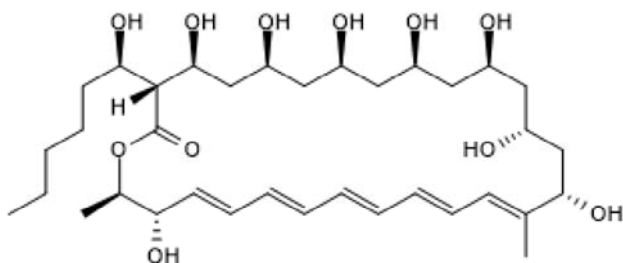
Batch Molecular Formula: C₃₅H₅₈O₁₁

Batch Molecular Weight: 654.83

Physical Appearance: White solid

Minimum Purity: >98%

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

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:

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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