

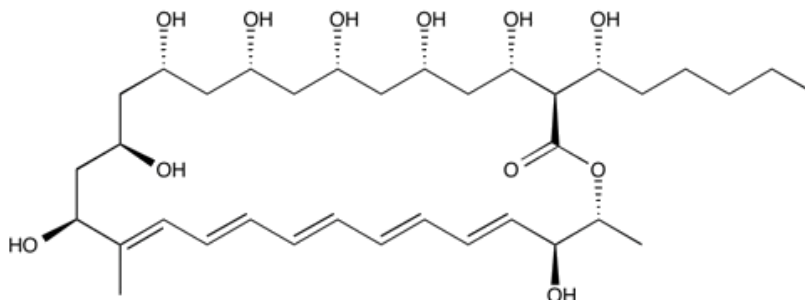
Catalog # 10-1490

Filipin III

CAS# 480-49-9

From *Streptomyces filipinensis*

Lot # X105230



Filipin III is a polyene macrolide antibiotic. It may be used in a double staining procedure for the detection of lipoproteins¹. Binds specifically to cholesterol forming a fluorescent complex which may be used for staining². Disrupts the lipid raft/caveolae endocytosis pathway³. Prevents pathological prion protein accumulation by reducing endocytosis and inducing cellular PrP release⁴.

- 1) Smejkal and Hof *et al.* (1994), *cholesterol-specific probe for lipoproteins immobilized on nitrocellulose membranes*; *Biotechniques*, **16** 68
- 2) Bornig and Geyer *et al.* (1974), *Staining of cholesterol with the fluorescent antibiotic "filipin"*; *Acta Histochemica*, **50** 110
- 3) Huo *et al.* (2003), *Lipid rafts/caveolae are essential for insulin-like growth factor-1 receptor signaling during 3T3-L1 preadipocyte differentiation induction*; *J. Biol. Chem.*, **278** 11561
- 4) Marella *et al.* (2002), *Filipin prevents pathological prion protein accumulation by reducing endocytosis and inducing cellular PrP release*; *J. Biol. Chem.*, **277** 25457

PHYSICAL DATA

Molecular Weight:	654.83
Molecular Formula:	C ₃₅ H ₅₈ O ₁₁
Purity:	99% by HPLC
	NMR: (Conforms)
Solubility:	Methanol (up to 10 mg/ml)
Physical Description:	White or slightly yellow solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in methanol may be stored under inert gas at -20°C for up to 2 months.

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