**Filipin III**

*Cholesterol fluorescent probe*

### Product Description

**Name:** Filipin III  

**Catalog Number:**  
- FP-T90945 1mg  
- FP-T90946 5mg  
- FP-T90947 10mg

**CAS:** 480-49-9

**Structure:**  
\[\text{C}_{35}\text{H}_{58}\text{O}_{11}\]

**Molecular Weight:** MW= 654.8

**Solubility:** CH$_3$OH

**Absorption / Emission:**  
\[\lambda_{\text{exc}}\lambda_{\text{em}}\text{(MeOH)} = 340-380/385-470\text{nm}\]

**Storage:** Store at -20°C  
Protect from light and moisture

### Introduction

Filipin III is a pentane marolide antibiotic and the predominant isomer of four isomeric polyene macrolides isolated from cultures of *S. filipinensis*. Due to Filipin III’s ability to fluoresce and bind to cholesterol the compound has been used to detect cholesterol in membranes through freeze fracture electron microscopy and through decreased fluorescence of Filipin III upon binding.

The compound has also been used in tobacco cells and observed to activate ligand-independent signaling responses. Through Filipin III’s cholesterol sequestering activity the compound was able to disrupt the lipid rafts in both normal and transformed keratinocytes resulting in inhibition of the AKT pathway.

### Directions for use

**Guidelines for use**

Protocol may be found in the literature.

### References

  [Abstract](#)

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Ordering information

Catalog size quantities and prices may be found at www.interchim.com/
Please inquire for higher quantities (availability, shipment conditions).

For any information, please ask : FluoProbes® / Interchim; Hotline : +33(0)4 70 03 73 06

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