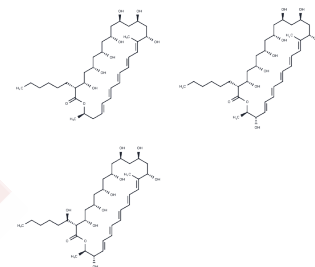


Filipin complex

Chemical Properties

CAS No. :	11078-21-0
Formula:	C105H174O30
Molecular Weight:	1916.517
Storage:	Store at low temperature,Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Filipin complex is a 28-membered cyclopentene macrolide antifungal antibiotic produced by a mixture of <i>S. filipinensis</i> , <i>S. avermitilis</i> , and <i>S. miharaensis</i> that inhibits the entry of PRRSV viruses into cells.
Targets(IC50)	Antibiotic,Antifungal
In vitro	Filipin complex (2 µg/mL; 1+48 hours) can inhibit the entry of PRRSV. The genomic copies of PRRSV in infected MARC-145 cells decreased by 61% [2].

Solubility Information

Solubility	Ethanol: 25.00 mg/mL (13.04 mM),Sonication is recommended. DMSO: 100.00 mg/mL (52.18 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4.00 mg/mL (2.09 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.5218 mL	2.6089 mL	5.2178 mL
5 mM	0.1044 mL	0.5218 mL	1.0436 mL
10 mM	0.0522 mL	0.2609 mL	0.5218 mL
50 mM	0.0104 mL	0.0522 mL	0.1044 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Malcolm E. Bergy et al. Filipin complex. *Biochemistry*, 1968, 7, 2, 653-659.

Houdai T, et al. Membrane-permeabilizing activities of amphidinol 3, polyene-polyhydroxy antifungal from a marine dinoflagellate. *Biochim Biophys Acta*. 2004 Nov 17;1667(1):91-100.

Huang L, et al. Role of lipid rafts in porcine reproductive and respiratory syndrome virus infection in MARC-145 cells. *Biochem Biophys Res Commun*. 2011 Oct 28;414(3):545-50.

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