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Zuschläge

- Mindermengenzuschlag
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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

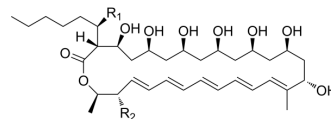
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Filipin complex

Cat. No.:	HY-N6716
CAS No.:	11078-21-0
Target:	Fungal; Antibiotic
Pathway:	Anti-infection
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



Filipin I : R ₁ =H, R ₂ =H	1%
Filipin II : R ₁ =H, R ₂ =OH	9%
Filipin III : R ₁ =(R)-OH, R ₂ =OH	76%
Filipin IV : R ₁ =(S)-OH, R ₂ =OH	11%

SOLVENT & SOLUBILITY

In Vitro	DMSO : ≥ 100 mg/mL Ethanol : 10 mg/mL (ultrasonic and warming and heat to 60°C) * "≥" means soluble, but saturation unknown.
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (Infinity mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (Infinity mM); Clear solution Add each solvent one by one: 10% EtOH >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (Infinity mM); Clear solution

BIOLOGICAL ACTIVITY

Description	Filipin complex is a potent polyene macrolide antifungal antibiotic. Filipin complex inserts into membranes and sequester cholesterol into complexes and inhibits PRRSV entry. The Filipin complex consists of about 75.8% Filipin III (HY-N6718), 10.8% Filipin IV, 9.1% Filipin II, and 1.2% Filipin I ^{[1][2][3]} .
IC₅₀ & Target	Macrolide
In Vitro	Filipin complex (2 µg/ml; 1+48 h) inhibits PRRSV entry with respiratory syndrome virus (PRRSV) genome copies in infected cells reduced by 61% in MARC-145 cells ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Signal Transduct Target Ther. 2022 Jun 13;7(1):176.
- Adv Sci (Weinh). 2023 May 11;e2205949.

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- Environmental Pollution. Environmental Pollution, 2022: 120627.
 - J Pathol. 2023 Jan 30. doi: 10.1002/path.6059.
 - J Anim Sci Biotechnol. 2021 May 10;12(1):63.

See more customer validations on www.MedChemExpress.com

REFERENCES

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

[2]. 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.

[3]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA