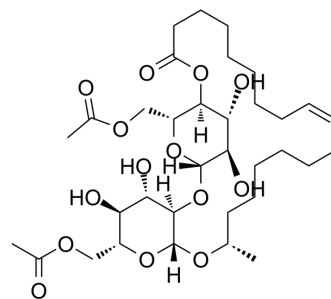


Lactonic sophorolipid

Cat. No.:	HY-137371		
CAS No.:	148409-20-5		
Molecular Formula:	C ₃₄ H ₅₆ O ₁₄		
Molecular Weight:	688.8		
Target:	Bacterial; Apoptosis; Antibiotic		
Pathway:	Anti-infection; Apoptosis		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (181.48 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.4518 mL	7.2590 mL	14.5180 mL
5 mM	0.2904 mL	1.4518 mL	2.9036 mL
10 mM	0.1452 mL	0.7259 mL	1.4518 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (3.02 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (3.02 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Lactonic sophorolipid is a natural antimicrobial surfactant for oral hygiene^[1]. Lactonic sophorolipid, a potential anticancer agent, induces apoptosis in human HepG2 cells through the caspase-3 pathway^[1].

REFERENCES

- [1]. M Elshikh, et al. Rhamnolipids and lactonic sophorolipids: natural antimicrobial surfactants for oral hygiene. J Appl Microbiol. 2017 Nov;123(5):1111-1123.
- [2]. Xiao Wang, et al. Lactonic sophorolipid-induced apoptosis in human HepG2 cells through the Caspase-3 pathway. Appl Microbiol Biotechnol. 2021 Mar;105(5):2033-

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

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