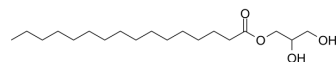


1-Monopalmitin

Cat. No.:	HY-W009141		
CAS No.:	542-44-9		
Molecular Formula:	C ₁₉ H ₃₈ O ₄		
Molecular Weight:	330.51		
Target:	P-glycoprotein		
Pathway:	Membrane Transporter/Ion Channel		
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 : 50 mg/mL (151.28 mM; ultrasonic and warming and heat to 60°C)
 Ethanol : 50 mg/mL (151.28 mM; warming and heat to 60°C)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.0256 mL	15.1281 mL	30.2563 mL
	5 mM	0.6051 mL	3.0256 mL	6.0513 mL
	10 mM	0.3026 mL	1.5128 mL	3.0256 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (7.56 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

1-Monopalmitin, a bitter melon extract, inhibits the P-glycoprotein (P-gp) activity in intestinal Caco-2 cells^[1].

REFERENCES

[1]. Tomoko Konishi, et al. A bitter melon extract inhibits the P-glycoprotein activity in intestinal Caco-2 cells: monoglyceride as an active compound. *Biofactors*. 2004;22(1-4):71-4.

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

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