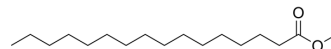


Methyl palmitate

Cat. No.:	HY-N1482		
CAS No.:	112-39-0		
Molecular Formula:	C ₁₇ H ₃₄ O ₂		
Molecular Weight:	270.45		
Target:	Parasite		
Pathway:	Anti-infection		
Storage:	Pure form	-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 (184.88 mM; ultrasonic and warming and heat to 60°C)
 Ethanol : 50 mg/mL (184.88 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.6975 mL	18.4877 mL	36.9754 mL
	5 mM	0.7395 mL	3.6975 mL	7.3951 mL
	10 mM	0.3698 mL	1.8488 mL	3.6975 mL

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

In Vivo

- Add each solvent one by one: 50% PEG300 >> 50% saline
 Solubility: 30 mg/mL (110.93 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: 25 mg/mL (92.44 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (9.24 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Methyl palmitate, an acaricidal compound occurring in Lantana camara, inhibits phagocytic activity and immune response. Methyl palmitate also possesses anti-inflammatory and antifibrotic effects^{[1][2][3]}.

REFERENCES

[1]. El-Demerdash E, et al, Anti-inflammatory and antifibrotic effects of methyl palmitate. Toxicol Appl Pharmacol. 2011 Aug 1;254(3):238-44.

[2]. N. R. Di Luzio, et al. Depression of phagocytic activity and immune response by methyl palmitate. Am J Physiol. 1964 May;206:939-43.

[3]. Y. N. Wang, et al. Methyl Palmitate, an Acaricidal Compound Occurring in Green Walnut Husks. Journal of Economic Entomology, Volume 102, Issue 1, 1 February 2009, Pages 196–202.

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

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