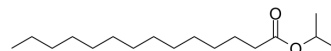


Isopropyl myristate

Cat. No.:	HY-124190		
CAS No.:	110-27-0		
Molecular Formula:	C ₁₇ H ₃₄ O ₂		
Molecular Weight:	270.45		
Target:	Others		
Pathway:	Others		
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 : 100 mg/mL (369.75 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	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: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (9.24 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 2.5 mg/mL (9.24 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

Isopropyl myristate (IPM) is the ester of isopropyl alcohol and myristic acid. Isopropyl myristate (IPM) is a polar emollient and is used in cosmetic and topical medicinal preparations where good absorption into the skin is desired^[1].

REFERENCES

[1]. Engelbrecht, T, et al. (2012). Study of the influence of the penetration enhancer isopropyl myristate on the nanostructure of stratum corneum lipid model membranes using neutron diffraction and deuterium labelling. *Skin Pharmacol Physiol*, 25:200-7

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

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