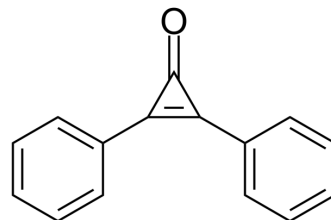


Diphenylcyclopropenone

Cat. No.:	HY-W014605
CAS No.:	886-38-4
Molecular Formula:	C ₁₅ H ₁₀ O
Molecular Weight:	206.24
Target:	Others
Pathway:	Others
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (484.87 mM; Need ultrasonic)					
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div></div>	Mass	1 mg	5 mg	10 mg
		1 mM		4.8487 mL	24.2436 mL	48.4872 mL
		5 mM		0.9697 mL	4.8487 mL	9.6974 mL
		10 mM		0.4849 mL	2.4244 mL	4.8487 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (12.12 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (12.12 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (12.12 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Diphenylcyclopropenone (Diphencyprone) is a topical immunomodulatory agent that can be used for alopecia areata research ^{[1][2]} .
-------------	--

REFERENCES

[1]. Yugang Gong, et al. Diphenylcyclopropenone plays an effective therapeutic role by up-regulating the TSLP/OX40L/IL-13 pathway in severe alopecia areata. Exp Dermatol. 2021 Feb;30(2):278-283.

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