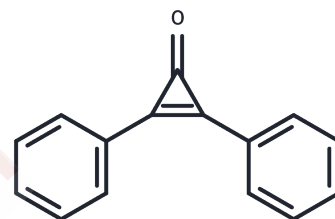


Diphenylcyclopropenone

Chemical Properties

CAS No. :	886-38-4
Formula:	C ₁₅ H ₁₀ O
Molecular Weight:	206.24
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Diphenylcyclopropenone (DPCP) is a topical drug used to treat alopecia areata, alopecia totalis, and refractory warts. Diphenylcyclopropenone acts as a local stimulator that triggers an immune response against the action of autoreactive cells.
Targets(IC50)	Apoptosis,Others,Interleukin,IRE1,p38 MAPK

Solubility Information

Solubility	DMSO: 88 mg/mL (426.69 mM),Sonication is recommended. H ₂ O: Insoluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (16 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.097 mL	0.4849 mL	0.9697 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Moncrieff M, Fadhil M, Garioch J. Topical diphencyprone for the treatment of locoregional intralymphatic melanoma metastases (LIMMs) of the skin. The 5-Year Norwich experience. Br J Dermatol. 2015 Nov 24.

Bullock KG, Cardia JP, Pavco PA, Levis WR. Diphencyprone Treatment of Alopecia Areata: Postulated Mechanism of Action and Prospects for Therapeutic Synergy with RNA Interference. J Investig Dermatol Symp Proc. 2015 Nov;17(2):16-8.

Moncrieff M, Fadhil M, Garioch J. Topical diphencyprone for the treatment of locoregional intralymphatic melanoma metastases (LIMMs) of the skin. The 5-Year Norwich experience. Br J Dermatol. 2015 Nov 24. doi: 10.1111/bjd.14314. [Epub ahead of print] PubMed PMID: 26598951.

Lamb RC, Young D, Holmes S. Retrospective review of diphencyprone in the treatment of alopecia areata. Clin Exp Dermatol. 2015 Dec 1.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481