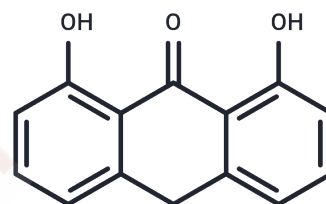


Dithranol

Chemical Properties

CAS No. :	1143-38-0
Formula:	C ₁₄ H ₁₀ O ₃
Molecular Weight:	226.23
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	Dithranol (cignoline) is an anthracene derivative that disrupts MITOCHONDRIA function and structure and is used for the treatment of DERMATOSES, especially PSORIASIS. It may cause FOLLICULITIS.
Targets(IC50)	DNA/RNA Synthesis
Kinase Assay	THP-1 and HEK293 cells are transiently transfected using DEAE-dextran and Polyfect reagent, respectively. Plasmids transfected contain genes coding for the NF-κB-dependent pELAM-luc luciferase reporter, TLR2, TLR4, CD14, and MD2. Cells (5×10 ⁵ THP-1 or 1×10 ⁵ HEK293) are added to 12-well plates, washed after 18 h, and stimulated for 5 h. Cells are then lysed with reporter lysis buffer as directed, and lysates are analyzed for luminescence using Promega luciferase substrate and a Monolight 3010 luminometer.

Solubility Information

Solubility	Chloroform: 41 mg/mL (181.23 mM),Sonication is recommended. DMSO: 10 mM,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 1 mg/mL (4.42 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	4.4203 mL	22.1014 mL	44.2028 mL
5 mM	0.8841 mL	4.4203 mL	8.8406 mL
10 mM	0.442 mL	2.2101 mL	4.4203 mL
50 mM	0.0884 mL	0.442 mL	0.8841 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

Durdu M, et al. J Am Acad Dermatol. 2015 Apr;72(4):640-50.

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