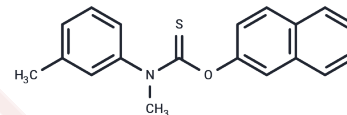


Tolnaftate

Chemical Properties

CAS No. :	2398-96-1
Formula:	C ₁₉ H ₁₇ NOS
Molecular Weight:	307.41
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	Tolnaftate (NP-27) is a synthetic antifungal agent used to treat skin infections caused by fungi.
Targets(IC50)	Hedgehog/Smoothened,Antifungal

Solubility Information

Solubility	H ₂ O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 65 mg/mL (211.44 mM),Sonication is recommended. Ethanol: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2.5 mg/mL (8.13 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	3.253 mL	16.2649 mL	32.5298 mL
5 mM	0.6506 mL	3.253 mL	6.506 mL
10 mM	0.3253 mL	1.6265 mL	3.253 mL
50 mM	0.0651 mL	0.3253 mL	0.6506 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

Barrett-Bee K, Dixon G. Acta Biochim Pol. 1995;42(4):465-79.

Su K, Liu J, Chen J, et al. Bisphenol C Induces Cardiac Developmental Defects by Disrupting m6A Homeostasis. Environmental Science & Technology. 2024

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