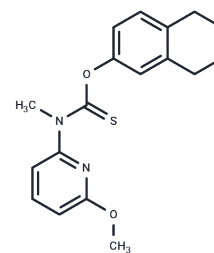


Liranaftate

Chemical Properties

CAS No. :	88678-31-3
Formula:	C ₁₈ H ₂₀ N ₂ O ₂ S
Molecular Weight:	328.43
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	Liranaftate (Piritetrate) is a thiocarbamate and squalene epoxidase inhibitor with antifungal activity. Liranaftate inhibits fungal squalene epoxidase, an enzyme that plays a key role in the synthesis of sterol which is essential for cell membrane integrity. By preventing ergosterol synthesis and causing accumulation of squalene, this agent increases cell membrane permeability, cell leakage and eventually cell lysis.
Targets(IC50)	Antifungal

Solubility Information

Solubility	DMSO: 9 mg/mL (27.4 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 0.5 mg/mL (1.52 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	3.0448 mL	15.2239 mL	30.4479 mL
5 mM	0.609 mL	3.0448 mL	6.0896 mL
10 mM	0.3045 mL	1.5224 mL	3.0448 mL
50 mM	0.0609 mL	0.3045 mL	0.609 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

Maruyama N, et al. Med Mycol J. 2012;53(2):129-33.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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