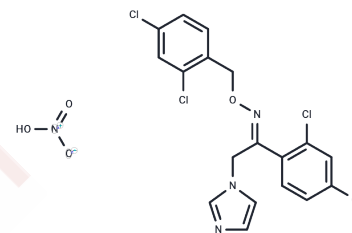


Oxiconazole nitrate

Chemical Properties

CAS No. :	64211-46-7
Formula:	C ₁₈ H ₁₃ Cl ₄ N ₃ O·HNO ₃
Molecular Weight:	492.14
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	Oxiconazole nitrate (Ro 13-8996) is the nitrate salt form of oxiconazole, a broad-spectrum imidazole derivative with antifungal activity. Likely inhibiting cytochrome P450-dependent demethylation of lanosterol, it prevents ergosterol synthesis, a crucial component of the fungal cell membrane. This disruption of membrane synthesis and integrity alters permeability, promotes loss of essential intracellular components, and inhibits fungal cell growth.
Targets(IC50)	Antibiotic,Antifection,Antifungal,Cytochromes P450
In vivo	Fusidin(Fusidate Sodium) ameliorates EAM, at least partly, through an inhibitory action on the secretion of TNF- α [1]. It markedly attenuates clinical and histological signs of immunoinflammatory diabetes mellitus in mice given streptozotocin(SZ). The effect is dose-dependent, observed in three different strains of mice. Thus, fusidin might have an antidiabetogenic effect[2].

Solubility Information

Solubility	DMSO: 250 mg/mL (507.99 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.06 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	2.0319 mL	10.1597 mL	20.3194 mL
5 mM	0.4064 mL	2.0319 mL	4.0639 mL
10 mM	0.2032 mL	1.016 mL	2.0319 mL
50 mM	0.0406 mL	0.2032 mL	0.4064 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

Carrillo-Munoz AJ, et al. Rev Esp Quimioter. 2006 Jun;19(2):130-9.

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