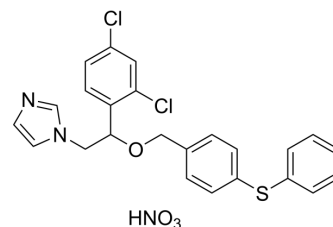


Fenticonazole Nitrate

Cat. No.:	HY-B0359
CAS No.:	73151-29-8
Molecular Formula:	C ₂₄ H ₂₁ Cl ₂ N ₃ O ₄ S
Molecular Weight:	518.41
Target:	Fungal; Antibiotic
Pathway:	Anti-infection
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (192.90 mM)
* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.9290 mL	9.6449 mL	19.2898 mL
	5 mM	0.3858 mL	1.9290 mL	3.8580 mL
	10 mM	0.1929 mL	0.9645 mL	1.9290 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (4.82 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (4.82 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (4.82 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Fenticonazole Nitrate is an antifungal imidazole ring derivative. Fenticonazole Nitrate operates via hindering ergosterol integration, and sequentially destructing the cytoplasmic outer membrane. Fenticonazole Nitrate is effective against Gram-positive bacteria, mycoses, and vaginal candidiasis^{[1][2]}.

In Vitro

Fenticonazole is anazole antifungal drug, used locally as the nitrate in the treatment of vulvovaginal candidiasis. It is active against a range of organisms including dermatophyte pathogens, *Malassezia furfur*, and *Candida albicans*^[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Pharmacol Res. 2021 Aug 27;105860.

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REFERENCES

- [1]. Fernandez-Alba, J., et al., Fenticonazole nitrate for treatment of vulvovaginitis: efficacy, safety, and tolerability of 1-gram ovules, administered as ultra-short 2-day regimen. J Chemother, 2004. 16(2): p. 179-86.
- [2]. Rofida Albash, et al. Ultra-deformable liposomes containing terpenes (terpesomes) loaded fenticonazole nitrate for treatment of vaginal candidiasis: Box-Behnken design optimization, comparative ex vivo and in vivo studies. Drug Deliv. 2020 Dec;27(1):1514-1523.
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Caution: Product has not been fully validated for medical applications. For research use only.

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