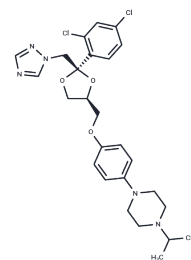


Terconazole

Chemical Properties

CAS No. :	67915-31-5
Formula:	C ₂₆ H ₃₁ Cl ₂ N ₅ O ₃
Molecular Weight:	532.46
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Terconazole (Terazol 7) is a synthetic triazole derivative structurally related to fluconazole, antifungal Terconazole seems to disrupt cell wall synthesis by inhibiting biosynthesis of ergosterol or other sterols, damaging the fungal cell membrane, altering its permeability, and promoting loss of essential intracellular elements. Terconazole is active against Candida sp.
Targets(IC50)	Antifection,Antifungal
In vitro	Terconazole effectively inhibits the growth of Candida albicans ATCC 44859 in a concentration-dependent manner, demonstrating limited effects at 0.1 to 10 µM when cultured on media promoting the cell form. Its inhibitory impact on yeast cell viability varies across different Candida strains and species. Notably, C. albicans ATCC 44859's susceptibility to terconazole significantly increases on Eagle minimum essential medium, which encourages mycelium formation. The effects of terconazole range from inhibiting mycelia development at 0.1 µM to causing complete necrosis at 100 µM. Moreover, terconazole prevents the morphogenetic shift from the yeast to the filamentous form at concentrations between 0.008 and 0.05 microgram/mL.
In vivo	A three-day, once-daily, intravaginal administration of 0.8% terconazole typically ensures a functional therapeutic duration of seven days, owing to sustained, elevated levels of the biologically active antifungal in the vagina. Terconazole is well-tolerated, with no side effects reported at any concentration[2].

Solubility Information

Solubility	DMSO: 45 mg/mL(84.5 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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A DRUG SCREENING EXPERT

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8781 mL	9.3904 mL	18.7808 mL
5 mM	0.3756 mL	1.8781 mL	3.7562 mL
10 mM	0.1878 mL	0.939 mL	1.8781 mL
50 mM	0.0376 mL	0.1878 mL	0.3756 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.

Reference

Tolman EL, et al. Anticandidal activities of terconazole, a broad-spectrum antimycotic. Antimicrob Agents Chemother. 1986 Jun;29(6):986-91.

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