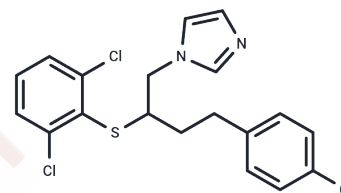


Butoconazole

Chemical Properties

CAS No. :	64872-76-0
Formula:	C ₁₉ H ₁₇ Cl ₃ N ₂ S
Molecular Weight:	411.78
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Butoconazole (1-[4-(4-chlorophenyl)-2-[(2,6-dichlorophenyl)thio]butyl]-1H-imidazole) is an imidazole antifungal agent
Targets(IC50)	Antifungal
In vivo	Butoconazole is particularly effective against in vivo <i>Candida albicans</i> infections (mice), maintaining good activity down to 0.25% formulation strength and showing unusually low reinfection rates after treatment is ended[1]. Butoconazole 1-BSR is an effective and safe alternative to longer-term therapy with miconazole nitrate (seven days) for vulvovaginal candidiasis[2].

Solubility Information

Solubility	DMSO: 77 mg/mL (186.99 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 (4.86 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	2.4285 mL	12.1424 mL	24.2848 mL
5 mM	0.4857 mL	2.4285 mL	4.857 mL
10 mM	0.2428 mL	1.2142 mL	2.4285 mL
50 mM	0.0486 mL	0.2428 mL	0.4857 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

Walker K A M , Braemer A C , Hitt S , et al. 1-[4-(4-Chlorophenyl)-2-(2,6-dichlorophenylthio)-n-butyl]-1H-imidazole nitrate, a new potent antifungal agent[J]. Journal of Medicinal Chemistry, 1978, 21(8):840-843.

Brown D , Henzl M R , Kaufman R H . Butoconazole nitrate 2% for vulvovaginal candidiasis. New, single-dose vaginal cream formulation vs. seven-day treatment with miconazole nitrate. Gynazole 1 Study Group[J]. Journal of Reproductive Medicine, 1999, 44(11):933-938.

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