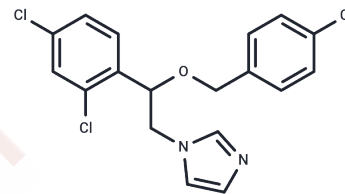


## Econazole

## Chemical Properties

CAS No. :	27220-47-9
Formula:	C <sub>18</sub> H <sub>15</sub> Cl <sub>3</sub> N <sub>2</sub> O
Molecular Weight:	381.68
Storage:	Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Econazole ((±)-Econazol) is an imidazole derivative that is commonly used as a topical antifungal agent.
Targets(IC50)	Calcium Channel,Antibacterial,Antibiotic,Antifection,Antifungal,Cytochromes P450

## Solubility Information

Solubility	DMSO: 250 mg/mL (655 mM),Sonication is recommended. Ethanol: 5 mg/mL (13.1 mM),Sonication is recommended. H <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (26.2 mM),Solution. 10% DMSO+90% Saline: < 10 mg/mL (26.2 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. <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

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	1mg	5mg	10mg
1 mM	2.620 mL	13.100 mL	26.200 mL
5 mM	0.524 mL	2.620 mL	5.240 mL
10 mM	0.262 mL	1.310 mL	2.620 mL
50 mM	0.0524 mL	0.262 mL	0.524 mL

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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

Ge S, et al. *Int J Pharm.* 2014 Apr 25; 465(1-2):120-31.

Ren L, Li W, Zheng X, et al. Benzimidazoles induce concurrent apoptosis and pyroptosis of human glioblastoma cells via arresting cell cycle. *Acta Pharmacologica Sinica.* 2021: 1-15.

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