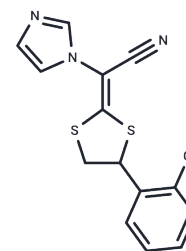


## Lanoconazole

## Chemical Properties

CAS No. :	101530-10-3
Formula:	C <sub>14</sub> H <sub>10</sub> ClN <sub>3</sub> S <sub>2</sub>
Molecular Weight:	319.83
Storage:	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	Lanoconazole is an antifungal imidazole drug used primarily for the treatment of fungal skin infections that is potent and orally available. It acts by inhibiting the synthesis of ergosterol in fungal cell membranes, increasing the permeability of fungal cell membranes, leading to cell lysis and death. Lanoconazole exhibits potent antifungal activity against a wide range of pathogenic fungi including yeast, dermatophytes, dermatiaceous fungi, dimorphic fungi, Aspergihs spp., and Candida spp..
Targets(IC50)	Antifungal
In vivo	Lanoconazole (3, 10, or 30 mg/kg, orally, once daily for 3 weeks) significantly reduces the growth of <i>C. neoformans</i> in the lungs and brain of mice.[3]

## Solubility Information

Solubility	DMSO: 80 mg/mL (250.13 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: 3.3 mg/mL (10.32 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	3.1267 mL	15.6333 mL	31.2666 mL
5 mM	0.6253 mL	3.1267 mL	6.2533 mL
10 mM	0.3127 mL	1.5633 mL	3.1267 mL
50 mM	0.0625 mL	0.3127 mL	0.6253 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

Shokoohi GR, et al. In Vitro Activities of Luliconazole, Lanconazole, and Efinaconazole Compared with Those of Five Antifungal Drugs against Melanized Fungi and Relatives. *Antimicrob Agents Chemother*. 2017 Oct 24;61(11). pii: e00635-17.

Nakamura A, et al. Anti-inflammatory effect of lanconazole on 12-O-tetradecanoylphorbol-13-acetate- and 2,4,6-trinitrophenyl chloride-induced skin inflammation in mice. *Mycoses*. 2020 Feb;63(2):189-196.

Furukawa K, et al. Lanconazole, a new imidazole antimycotic compound, protects MAIDS mice against encephalitis caused by *Cryptococcus neoformans*. *J Antimicrob Chemother*. 2000 Sep;46(3):443-50.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286 E\_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481