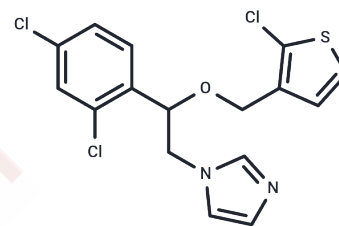


Tioconazole

Chemical Properties

CAS No. : 65899-73-2
 Formula: C₁₆H₁₃Cl₃N₂O₂
 Molecular Weight: 387.71
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	Tioconazole (Vagistat) is a synthetic imidazole derivative, inhibits cell wall synthesis by inhibiting the biosynthesis of ergosterol or other sterols, damaging the fungal cell membrane, altering its permeability, and promoting loss of essential intracellular elements.
Targets(IC50)	Akt,Antibiotic,Parasite,Antifection,Autophagy,Antifungal,mTOR,PI3K

Solubility Information

Solubility	H ₂ O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 50 mg/mL (128.96 mM),Sonication is recommended. Ethanol: 72 mg/mL (185.71 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 (5.16 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	2.5792 mL	12.8962 mL	25.7925 mL
5 mM	0.5158 mL	2.5792 mL	5.1585 mL
10 mM	0.2579 mL	1.2896 mL	2.5792 mL
50 mM	0.0516 mL	0.2579 mL	0.5158 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

Ballard SA, et al. Biochem Pharmacol. 1988 Dec 15;37(24):4643-51.

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