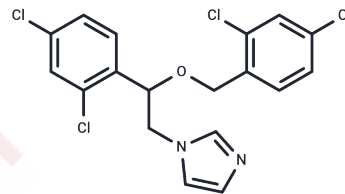


Miconazole

Chemical Properties

CAS No. :	22916-47-8
Formula:	C ₁₈ H ₁₄ Cl ₄ N ₂ O
Molecular Weight:	416.13
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	Miconazole (R18134) is an imidazole antifungal agent used both topically and via intravenous infusion.
Targets(IC50)	NOS, Antibacterial, Antibiotic, Antifection, Antifungal, Potassium Channel

Solubility Information

Solubility	DMSO: 250 mg/mL (600.77 mM), Sonication is recommended. Ethanol: 77 mg/mL (185.04 mM), Sonication is recommended. H ₂ 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: 2 mg/mL (4.81 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	2.4031 mL	12.0155 mL	24.031 mL
5 mM	0.4806 mL	2.4031 mL	4.8062 mL
10 mM	0.2403 mL	1.2015 mL	2.4031 mL
50 mM	0.0481 mL	0.2403 mL	0.4806 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

White TC, et al. Clin Microbiol Rev. 1998 Apr;11(2):382-402.

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.

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