

(Z)-Lanoconazole

Chemical Properties

CAS No. :

Formula: C₁₄H₁₀ClN₃S₂

Molecular Weight: 319.83

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	(Z)-Lanoconazole is the Z configuration of Lanoconazole, used for investigating dermatophytosis and onychomycosis. It inhibits sterol 14-alpha demethylase, disrupting fungal membrane ergosterol biosynthesis. Lanoconazole is a potent, orally active imidazole antifungal agent with a broad spectrum of activity against fungi both in vitro and in vivo [1] [2].
Targets(IC50)	Others,Antifungal
In vivo	Lanoconazole effectively mitigates TPA-induced irritant dermatitis through a dose-dependent mechanism (treatment applied to the ear; concentrations between 0.3%-3%; over 6 days), by reducing the production of neutrophil chemotactic factors, including keratinocyte-derived chemokine and macrophage inflammatory protein-2, and by inhibiting neutrophil migration to the site of inflammation [2]. Furthermore, when administered orally at doses of 3, 10, or 30 mg/kg once daily for three weeks, lanoconazole significantly hampers the growth of <i>C. neoformans</i> in comparison to a saline control in healthy mice. It also notably decreases the proliferation of <i>C. neoformans</i> in the lungs and brains of MAIDS mice, demonstrating its potent antifungal efficacy [3].

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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