Data Sheet (Cat.No.T60853)



(Z)-Lanoconazole

Chemical Properties

CAS No.:

Formula: C14H10ClN3S2

Molecular Weight: 319.83

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	(Z)-Lanoconazole is the Z configuration of Lanoconazole which used for dermatophytosis and onychomycosis investigation. Lanoconazole inhibits sterol 14-alpha demethylase and blocks fungal membrane ergosterol biosynthesis that interferes with ergosterol biosynthesis. Lanoconazole is a potent and orally active imidazole antifungal agent with a broad spectrum of activity against fungi both in vitro and in vivo [1] [2].
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 C. neoformans in comparison to a saline control in healthy mice. It also notably decreases the proliferation of C. neoformans in the lungs and brains of MAIDS mice, demonstrating its potent antifungal efficacy [3].

Preparing Stock Solutions

7.0 .	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.

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