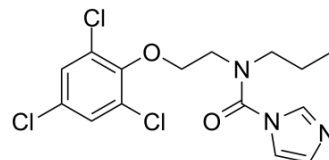


Prochloraz

Cat. No.:	HY-B0845		
CAS No.:	67747-09-5		
Molecular Formula:	C ₁₅ H ₁₆ Cl ₃ N ₃ O ₂		
Molecular Weight:	376.67		
Target:	Fungal; Estrogen Receptor/ERR; Androgen Receptor; Aryl Hydrocarbon Receptor		
Pathway:	Anti-infection; Others; Immunology/Inflammation		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (663.71 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.6548 mL	13.2742 mL	26.5484 mL
5 mM	0.5310 mL	2.6548 mL	5.3097 mL
10 mM	0.2655 mL	1.3274 mL	2.6548 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 1.98 mg/mL (5.26 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (5.52 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (5.52 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Prochloraz is an imidazole antifungal that inhibits ergosterol biosynthesis via inhibition of the cytochrome P450-dependent 14α-demethylation of lanosterol, which results in disruption of the fungal cell membrane and cell death. Prochloraz inhibits human placenta microsomal aromatase in vitro (IC₅₀=40 nM). Prochloraz also acts as an antagonist of the estrogen receptor (ER) and androgen receptor (AR) (IC₅₀s=25 μM and 4 μM, respectively) as well as activates the aryl hydrocarbon receptor (AhR; EC₅₀=1 μM).

Caution: Product has not been fully validated for medical applications. For research use only.

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