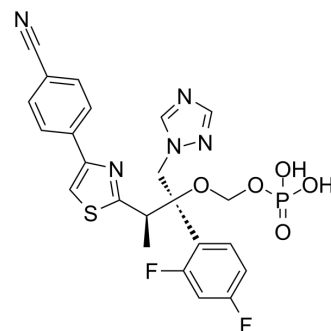


Fosravuconazole

Cat. No.:	HY-16779		
CAS No.:	351227-64-0		
Molecular Formula:	C ₂₃ H ₂₀ F ₂ N ₅ O ₅ PS		
Molecular Weight:	547.47		
Target:	Fungal; Parasite		
Pathway:	Anti-infection		
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 : 100 mg/mL (182.66 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	1.8266 mL	9.1329 mL	18.2658 mL
		5 mM	0.3653 mL	1.8266 mL	3.6532 mL
10 mM		0.1827 mL	0.9133 mL	1.8266 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (4.57 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (4.57 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.57 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Fosravuconazole (BMS-379224), a proagent of Ravuconazole, is an orally active broad spectrum antifungal agent. Fosravuconazole can be used for candidiasis, onychomycosis and parasitemia research ^{[1][2][3]} .
IC₅₀ & Target	Fungal ^[1]
In Vitro	Ravuconazole has potent in vitro antifungal activity against a wide range of fungal species, including <i>Candida</i> , <i>Aspergillus</i> , and <i>Trichophyton</i> species ^[1] .

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Fosravuconazole (E-1224; 10-50 mg/kg; oral administration; daily; for 20 days) treatment suppresses the parasitemia and prevents death in mice infected with the T. cruzi Y strain^[3].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Swiss female mice (20-24 g) inoculated with trypomastigotes (Y strain) ^[3] .
Dosage:	10 mg/kg, 20 mg/kg, 30 mg/kg, 40 mg/kg, 50 mg/kg
Administration:	Oral administration; daily; for 20 days
Result:	Suppressed the parasitemia and prevented death.

REFERENCES

- [1]. Shinichi Watanabe, et al. Efficacy and safety of fosravuconazole L-lysine ethanolate, a novel oral triazole antifungal agent, for the treatment of onychomycosis: A multicenter, double-blind, randomized phase III study. J Dermatol. 2018 Oct;45(10):1151-1159.
- [2]. Katsura Hata, et al. Development of E1224 by leveraging a strategic partnership for the medicines creation against neglected tropical diseases. Parasitol Int. 2020 Dec 25;81:102278.
- [3]. Lívia de Figueiredo Diniz, et al. Outcome of E1224-Benznidazole Combination Treatment for Infection with a Multidrug-Resistant Trypanosoma cruzi Strain in Mice. Antimicrob Agents Chemother. 2018 May 25;62(6):e00401-18.

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

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