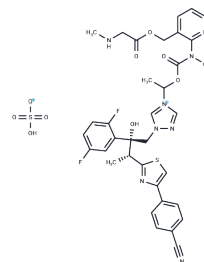


Isavuconazonium sulfate

Chemical Properties

CAS No. :	946075-13-4
Formula:	C35H36F2N8O9S2
Molecular Weight:	814.84
Appearance:	no data available
Storage:	keep away from direct sunlight, keep away from moisture, store at low temperature
	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Isavuconazonium sulfate is hydrolyzed by plasma esterases to yield the active moiety isavuconazole. Isavuconazole binds to and inhibits the fungal cytochrome P450 family enzyme lanosterol 14- α -demethylase (CYP51), which catalyzes the demethylation of lanosterol to yield ergosterol, an important component of the fungal cell membrane. Isavuconazonium Sulfate is a prodrug of the triazole antifungal agent isavuconazole, with broad-spectrum antifungal activity. Inhibition of CYP51 leads to a decrease in fungal ergosterol production and disrupts the synthesis of the fungal cell membrane, which decreases membrane integrity, increases cell membrane permeability and promotes the loss of essential intracellular elements. This results in fungal cell lysis and death.
Targets(IC50)	Antifungal

Solubility Information

Solubility	DMSO: 50 mg/mL (61.36 mM), Sonication is recommended. H2O: Insoluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.2272 mL	6.1362 mL	12.2723 mL
5 mM	0.2454 mL	1.2272 mL	2.4545 mL
10 mM	0.1227 mL	0.6136 mL	1.2272 mL
50 mM	0.0245 mL	0.1227 mL	0.2454 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.

Reference

Kovanda LL, et al. Pharmacodynamics of Isavuconazole for Invasive Mold Disease: Role of Galactomannan for Real-Time Monitoring of Therapeutic Response. Clin Infect Dis. 2017 May 2.

Sun Y, Wu J, Shen B, et al. Discovery of TRPV4-Targeting Small Molecules with Anti-Influenza Effects Through Machine Learning and Experimental Validation. International Journal of Molecular Sciences. 2025, 26(3): 1381.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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