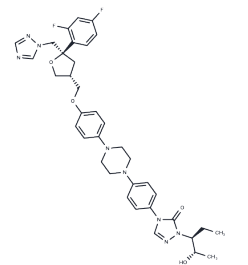


## Posaconazole hydrate

## Chemical Properties

CAS No. :	1198769-38-8
Formula:	C37H44F2N8O5
Molecular Weight:	718.79
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	Posaconazole is a broad-spectrum, second generation, triazole compound with antifungal activity. Posaconazole is a sterol C14 demethylase inhibitor (IC50: 0.25 nM). Posaconazole strongly inhibits 14-alpha demethylase, a cytochrome P450-dependent enzyme.
Targets(IC50)	Others,Parasite,Antifungal
In vitro	Inhibition of 14-alpha-demethylase prevents the conversion of lanosterol to ergosterol, an important component of the fungal cell wall. Inhibition of ergosterol synthesis changes the fungal cell membrane composition and integrity, alters membrane permeability, and eventually leads to fungal cell lysis. Compared to other azole antifungals, posaconazole is a significantly more potent inhibitor of sterol 14-alpha demethylase. Posaconazole is the most advanced candidate for the treatment of Chagas disease. Posaconazole has entered in phase II clinical trial in the treatment of mycoses.

## Solubility Information

Solubility	DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.3912 mL	6.9561 mL	13.9123 mL
5 mM	0.2782 mL	1.3912 mL	2.7825 mL
10 mM	0.1391 mL	0.6956 mL	1.3912 mL
50 mM	0.0278 mL	0.1391 mL	0.2782 mL

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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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