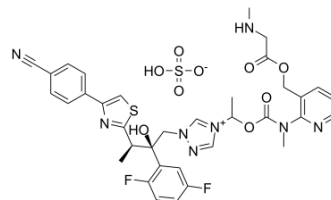


## Isavuconazonium sulfate

<b>Cat. No.:</b>	HY-100373		
<b>CAS No.:</b>	946075-13-4		
<b>Molecular Formula:</b>	C <sub>35</sub> H <sub>36</sub> F <sub>2</sub> N <sub>8</sub> O <sub>9</sub> S <sub>2</sub>		
<b>Molecular Weight:</b>	814.84		
<b>Target:</b>	Fungal		
<b>Pathway:</b>	Anti-infection		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 166.67 mg/mL (204.54 mM; Need ultrasonic)  
 H<sub>2</sub>O : 0.5 mg/mL (0.61 mM; ultrasonic and warming and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
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

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: ≥ 2.08 mg/mL (2.55 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
 Solubility: ≥ 2.08 mg/mL (2.55 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
 Solubility: ≥ 2.08 mg/mL (2.55 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Isavuconazonium sulfate (BAL8557-002), the prodrug of the active triazole Isavuconazole, is an orally active antifungal agent. Isavuconazonium sulfate is used for invasive aspergillosis and mucormycosis<sup>[1][2]</sup>.

### REFERENCES

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[1]. Schmitt-Hoffmann AH, et al. Tissue Distribution and Elimination of Isavuconazole following Single and Repeat Oral-Dose Administration of Isavuconazonium Sulfate to Rats. *Antimicrob Agents Chemother.* 2017 Nov 22;61(12). pii: e01292-17.

[2]. Murrell D, et al. Isavuconazonium sulfate: a triazole prodrug for invasive fungal infections. *Int J Pharm Pract.* 2017 Feb;25(1):18-30.

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

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