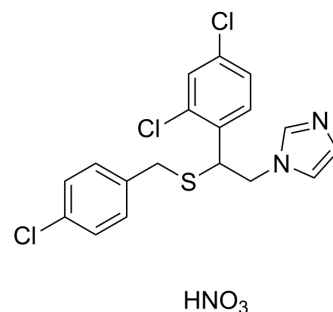


## Sulconazole mononitrate

<b>Cat. No.:</b>	HY-B1460
<b>CAS No.:</b>	61318-91-0
<b>Molecular Formula:</b>	C <sub>18</sub> H <sub>16</sub> Cl <sub>3</sub> N <sub>3</sub> O <sub>3</sub> S
<b>Molecular Weight:</b>	460.76
<b>Target:</b>	Fungal; Bacterial
<b>Pathway:</b>	Anti-infection
<b>Storage:</b>	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 125 mg/mL (271.29 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	<b>Preparing Stock Solutions</b>		1 mg	5 mg	10 mg
		1 mM	2.1703 mL	10.8516 mL	21.7033 mL
		5 mM	0.4341 mL	2.1703 mL	4.3407 mL
	10 mM	0.2170 mL	1.0852 mL	2.1703 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.08 mg/mL (4.51 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.51 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.08 mg/mL (4.51 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	Sulconazole mononitrate ((±)-Sulconazole mononitrate), an imidazole derivative, is a broad-spectrum fungicide. Sulconazole mononitrate can be used for the research of dermatomycoses, pityriasis versicolor, and cutaneous candidiasis [1][2].
<b>IC<sub>50</sub> &amp; Target</b>	Antifungal <sup>[1]</sup>
<b>In Vitro</b>	Sulconazole mononitrate possesses a broad spectrum of antifungal activity, inhibiting the growth of dermatophytes, yeasts and various filamentous and dimorphic fungi at oncentrations below 5 mg/L in vitro <sup>[1]</sup> .

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?Sulconazole mononitrate has also demonstrated antibacterial activity in vitro, with MIC values below 12.5 mg/L, against several *Staphylococcus* species, *Streptococcus faecalis* and certain gram-positive anaerobes<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## CUSTOMER VALIDATION

- Nat Commun. 2021 Aug 16;12(1):4961.
- Mol Cell Proteomics. 2023 Apr 17;100551.
- bioRxiv. 2020 Jun.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

- [1]. P Benfield, et al. Sulconazole. A review of its antimicrobial activity and therapeutic use in superficial dermatomycoses. *Drugs*. 1988 Feb;35(2):143-53.
- [2]. RA Fromtling. Overview of medically important antifungal azole derivatives. *Clin Microbiol Rev*. 1988 Apr; 1(2): 187–217.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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