## Antifungal agent 41

Cat. No.:	HY-151439	ÇI
Molecular Formula:	C <sub>22</sub> H <sub>18</sub> Cl <sub>4</sub> N <sub>4</sub> Se <sub>2</sub>	
Molecular Weight:	638.14	
Target:	Fungal	
Pathway:	Anti-infection	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

Description	Antifungal agent 41 (compound B01) is an antifungal agent. Antifungal agent 41 shows inhibitory effect on Candida albicans in virto and vivo. Antifungal agent 41 can be used for the research of invasive fungal infections <sup>[1]</sup> .		
In Vitro	Antifungal agent 41 (0.25-124 A.f with MIC values of 2, 1, 8, Antifungal agent 41 (0-64 µg, with MIC values of 2, 8, 4, 2 a Antifungal agent 41 (0-64 µg, 16, 2 and 4 µg/mL for C.alb, 0 Antifungal agent 41 (0-1024 µ and 0.5-4 µg/mL, with SMIC8 MCE has not independently o Cell Cytotoxicity Assay <sup>[1]</sup>	Antifungal agent 41 (0.25-128 µg/mL) shows antifungal activities to C.alb, C.alb (sc5314), C.gla, C.par, C.kru, C.zey, C.neo and A.f with MIC values of 2, 1, 8, 2, 8, 0.25, 4 and 1 µg/mL, respectively <sup>[1]</sup> . Antifungal agent 41 (0-64 µg/mL; 24 h) shows antifungal activities against pathogenic fluconazole-resistant Candida albicans with MIC values of 2, 8, 4, 2 and 4 µg/mL for strain CaR, 17#, 632, 901 and 904, respectively <sup>[1]</sup> . Antifungal agent 41 (0-64 µg/mL; 24 h) shows antifungal activities against Candida albicans with MFC value of 16, 8, 16, >64, 16, 2 and 4 µg/mL for C.alb, C.alb (sc5314), strain CaR, 17#, 632, 901 and 904, respectively <sup>[1]</sup> . Antifungal agent 41 (0-1024 µg/mL; 1.5-24 h) inhibits C.alb ATCC SC5314 and CPCC400616 biofilms with SMIC <sub>50</sub> s of 0.5 µg/mL and 0.5-4 µg/mL, with SMIC <sub>80</sub> s of 4-32 µg/mL and 2-4 µg/mL, respectively <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Cytotoxicity Assay <sup>[1]</sup>	
	Cell Line:	HL-60, MDA-MB-231 and PC-3 cell lines	
	Concentration:	0-100 μΜ	
	Incubation Time:	24 h	
	Result:	Inhibited growth of HL-60, MDA-MB-231 and PC-3 cells with IC_{50}s of 32.53, 6.25 and 1.43 $\mu$ M, respectively.	
In Vivo	Antifungal agent 4 (6-12 mg/kg; i.p. once daily for 5 days) shows in vivo antifungal effects <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	Mice with C.alb ATCC SC5314 infection <sup>[1]</sup>	
	Dosage:	6 mg/kg and 12 mg/kg	
	Administration:	Intraperitoneal injection; 6 mg/kg and 12mg/kg once daily; for 5 days	
	Result:	Significantly reduced the kidney fungal burden of C.alb.	



## REFERENCES

[1]. Xu H, et al. Discovery of novel selenium-containing azole derivatives as antifungal agents by exploiting the hydrophobic cleft of CYP51. Eur J Med Chem. 2022 Aug 28;243:114707.

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

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