Antifungal agent 84

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®

Cat. No.:	HY-143334		
CAS No.:	2901064-07-9		
Molecular Formula:	C ₂₅ H ₁₉ BrClFN ₆ O	Cl.	
Molecular Weight:	553.81	Br, N, N, N-N	
Target:	Fungal		
Pathway:	Anti-infection	F	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.		

Description	Antibacterial agent 84 is an antifungal compound. Antibacterial agent 84 inhibits candidiasis in a CNB1-dependent way. Antibacterial agent 84 inhibits the C. albicans biofilm's viability ^[1] .		
In Vitro	Antibacterial agent 84 (compound 6d) (1-16 µg/mL) inhibits human pathogen C. albicans SC5314 growth ^[1] . Antibacterial agent 84 (16 µg/mL, 18 h) induces endogenous reactive oxygen species (ROS) production in C. albicans in a CNB1-dependent way ^[1] . Antibacterial agent 84 (16 µg/mL, 18 h) is cytotoxic against lysosomal membrane permeabilization in C. albicans ^[1] . Antibacterial agent 84 (16 µg/mL, 18 h) induces C. albicans phagocytosis by macrophages ^[1] . Antibacterial agent 84 (0.06-32 µg/mL) inhibits ergosterol synthesis in in cultures of C. albicans and C. tropicalis ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Line: C. albicans (SC5314) Concentration: 1-16 µg/mL Incubation Time: 18 or 48 h Result: Inhibited C. albicans SC5314 growth by nearly 100%.		
In Vivo	Antibacterial agent 84 (16 µg mellonella larvae infected by MCE has not independently of Animal Model: Dosage: Administration: Result:	DescriptionDescripti	

REFERENCES

[1]. Staniszewska M, et al. Tetrazole derivatives bearing benzodiazepine moiety-synthesis and action mode against virulence of Candida albicans. Eur J Med Chem. 2022 Feb 15;230:114060.

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

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