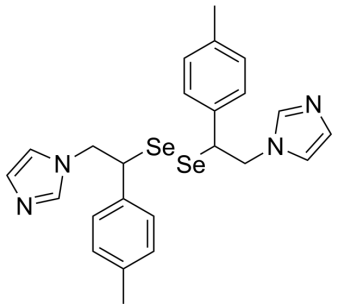
Antifungal agent 43

Cat. No.:	HY-151442
Molecular Formula:	$C_{24}H_{26}N_4Se_2$
Molecular Weight:	528.41
Target:	Fungal
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Antifungal agent 43 (compound B05) is an antifungal agent. Antifungal agents 43 has antifungal activity by inhibiting biofilm formation. Antifungal agent 43 has low toxicity in human cancer cell lines[1].
In Vitro	Antifungal agent 43 (compound B05; 0.25-128 μg/mL) has antifungal activity against fungi strains with MIC values of 1, 1, 4, 4, 8, and 8 μg/mL for C.alb(sc5314), C.zey, C.alb, C.par, C.gla, and C.kru, respectively[1]. Antifungal agent 43 (0.25-128 μg/mL) has antifungal activity against azole-resistant strains with MIC values of 2, 4, 4, 4, and 32 μg/mL for strain CaR, strain 632, strain 901, strain 904, and strain 17#, respectively[1]. Antifungal agent 43 (0-10 μM) has low toxicity in human cancer cell lines with IC_{50} values of 5.04, 7.43 and 14.74 for MDA-MB-231, PC-3, and HL-60 cells, respectively[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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.

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