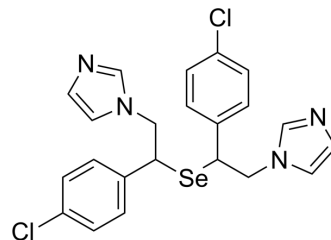


Antifungal agent 40

Cat. No.:	HY-151437
Molecular Formula:	C ₂₂ H ₂₀ Cl ₂ N ₄ Se
Molecular Weight:	490.29
Target:	Fungal
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Antifungal agent 40 is an antifungal agent which extends into the narrow hydrophobic pocket II of <i>C.alb</i> . CYP51. Antifungal agent 40 has an inhibitory effect on lanosterol 14 α -demethylase (CYP51). Antifungal agent 40 inhibits biofilm formation ^[1] .
IC₅₀ & Target	CYP51 ^[1]
In Vitro	<p>Antifungal agent 40 (compound A03, 0.25-128 μg/mL) inhibits fungal activity with MIC values of 1-64 μg/mL^[1].</p> <p>Antifungal agent 40 (1-8 μg/mL, 16 h) inhibits lanosterol 14α-demethylase (CYP51) of <i>C.alb</i> (GC-MS analysis)^[1].</p> <p>Antifungal agent 40 (0.5 μg/mL, 1.5-24 h) displays antibiofilm activity against FCZ-Resistant <i>C.alb</i>^[1].</p> <p>Antifungal agent 40 (0-10 μM respectively) shows cytotoxicity against HL-60, MDA-MB-231 and PC-3 cells with IC₅₀ values of 5.18, 3.25, 0.98 μM respectively^[1].</p> <p>Antifungal agent 40 (2-32 μg/mL, 3 h) displays high hemolysis rate in rabbit erythrocyte^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Hang Xu, et al. Discovery of novel selenium-containingazole 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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