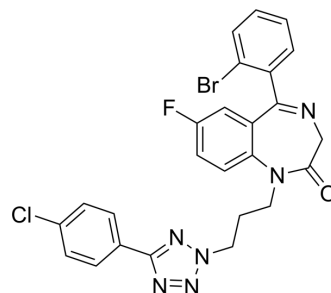


Antifungal agent 52

Cat. No.:	HY-143335
CAS No.:	2901064-06-8
Molecular Formula:	C ₂₅ H ₁₉ BrClFN ₆ O
Molecular Weight:	553.81
Target:	Fungal
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Antifungal agent 52 (compound 6c) is a tetrazole derivative. Antifungal agent 52 inhibits the synthesis of Ergosterol (HY-N0181). Antifungal agent 52 exhibit a significant antifungal activity against <i>Candida albicans</i> . Antifungal agent 52 affects <i>C. albicans</i> sessile cell membrane permeabilization ^[1] .
In Vitro	Antifungal agent 52 (compound 6c) (16 µg/mL, 18 h) treated cells enter the G0/G1 phase (metabolic state/cell proliferation) to maintain the daughter cells ^[1] . Antifungal agent 52 shows significant toxicity at >64 µg/mL and a lack of toxicity against cancer buccal cell line TR146 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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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