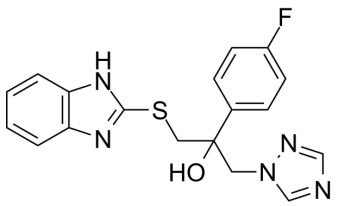
Antifungal agent 51

Cat. No.:	HY-149822
CAS No.:	2896209-47-3
Molecular Formula:	$C_{18}H_{16}FN_5OS$
Molecular Weight:	369.42
Target:	Fungal
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Antifungal agent 51 (Compound 5c) has potent antifungal activity, especially against Candida albicans FDC 151 , Candida parapsilosis ATCC 22019 and Candida tropicalis FDC 138, with the MIC value is less than 0.063 μg/mL, and it has low toxicity to cells and no carcinogenicity[1].

In Vitro

Antifungal agent 51 has potent antifungal activity, especially against Candida albicans FDC 151, Candida parapsilosis ATCC 22019 and Candida tropicalis FDC 138, with the MIC value is less than 0.063 μg/mL, and against Candida albicans CMRC 19 and Candida glabrata FDC 192 with MIC value of 0.125 μg/mL, against Candida albicans CMRC 192, with MIC value of 0.25 μg/mL, against Candida glabrata CMRC 89, with MIC value of 1 μg/mL[1].

Antifungal agent 51 (6.25, 12.5, 25 μg/mL; 48 h) partially affects the viability of cell lines even at relatively high concentration of 25 μg/mL in BEAS-2B and HepG2 cells [1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay[1]

Cell Line:	BEAS-2B and HepG2 cells
Concentration:	6.25, 12.5, and 25 μg/mL
Incubation Time:	48 h
Result:	Partially affected the viability of cell lines even at relatively high concentration of 25 μg/mL in BEAS-2B and HepG2 cells

REFERENCES

[1]. Ghobadi E, et al. Design, synthesis and biological activity of hybrid antifungals derived from fluconazole and mebendazole. Eur J Med Chem. 2023 Mar 5;249:115146.

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

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