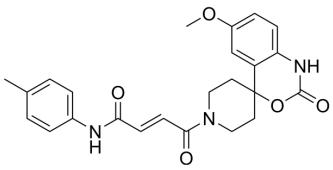
Chitin synthase inhibitor 7

Cat. No.:	HY-151417
Molecular Formula:	$C_{24}H_{25}N_3O_5$
Molecular Weight:	435.47
Target:	Fungal
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Chitin synthase inhibitor 7 (compound 9c) is a potent chitin synthase (CHS) inhibitor with an IC_{50} value of 0.37 mM. Chitin synthase inhibitor 7 has broad-spectrum antifungal activity against drug-resistant fungi. Chitin synthase inhibitor 7 can be used in the research of fungi infection[1].
In Vitro	Chitin synthase inhibitor 7 (compound 9c; 300 μg/mL) inhibits chitin synthase (CHS) activity with an inhibition percentage (IP) value of nearly 70% [1]. Chitin synthase inhibitor 7 (1-512 μg/mL) has antifungal activity against four strains with minimum inhibitory concentration (MIC) values of 128, 256, 256, and 256 μg/mL for C. albicans, A. flavus, A. fumigatus, and C. neoformans, respectively[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Xu Y, et, al. Spiro[benzoxazine-piperidin]-one derivatives as chitin synthase inhibitors and antifungal agents: Design, synthesis and biological evaluation. Eur J Med Chem. 2022 Aug 31;243:114723.

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