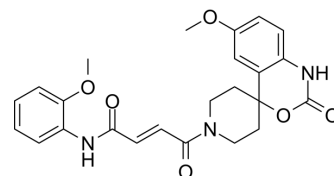


Chitin synthase inhibitor 9

Cat. No.:	HY-151419
CAS No.:	2725074-96-2
Molecular Formula:	C ₂₄ H ₂₅ N ₃ O ₆
Molecular Weight:	451.47
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 9 is a chitin synthase (CHS) inhibitor with broad-spectrum antifungal activity. Chitin synthase inhibitor 9 can be used in the research of fungi infection ^[1] .								
IC₅₀ & Target	Chitin synthase ^[1]								
In Vitro	<p>Chitin synthase inhibitor 9 (compound 9j, 300 µg/mL) inhibits chitin synthase (CHS) by 60%^[1]. Chitin synthase inhibitor 9 (0.0625-0.25 µM, 24 h) shows antifungal activities^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>C. albicans, A. flavus, A. fumigatus, C. neoformans</td> </tr> <tr> <td>Concentration:</td> <td>1-512 µg/mL</td> </tr> <tr> <td>Incubation Time:</td> <td>1-512 µg/mL</td> </tr> <tr> <td>Result:</td> <td>Inhibited four fungi with IC₅₀ value of 64, 128, 128, 256 µg/mL respectively.</td> </tr> </table>	Cell Line:	C. albicans, A. flavus, A. fumigatus, C. neoformans	Concentration:	1-512 µg/mL	Incubation Time:	1-512 µg/mL	Result:	Inhibited four fungi with IC ₅₀ value of 64, 128, 128, 256 µg/mL respectively.
Cell Line:	C. albicans, A. flavus, A. fumigatus, C. neoformans								
Concentration:	1-512 µg/mL								
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Result:	Inhibited four fungi with IC ₅₀ value of 64, 128, 128, 256 µg/mL respectively.								

REFERENCES

[1]. Yajie Xu, 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.

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

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