

## **Product** Data Sheet

## Chitin synthase inhibitor 8

Cat. No.:HY-151418Molecular Formula: $C_{23}H_{23}N_3O_5$ Molecular Weight:421.45

Target: Fungal

Pathway:

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.

Anti-infection

## **BIOLOGICAL ACTIVITY**

Description	Chitin synthase inhibitor 8 is a chitin synthase (CHS) inhibitor with broad-spectrum antifungal activity. Chitin synthase inhibitor 8 can be used in the research of fungi infection <sup>[1]</sup> .	
IC <sub>50</sub> & Target	Chitin synthase $^{[1]}$	
In Vitro	Chitin synthase inhibitor 8 (compound 9d, 300 µg/mL) inhibits chitin synthase (CHS) by 69% <sup>[1]</sup> . Chitin synthase inhibitor 8 (0.0625-0.25 µM, 24 h) shows antifungal activities <sup>[1]</sup> . Chitin synthase inhibitor 8 (32 µg/mL, 24 h) shows strong synergistic effect against A. fumigatus when combinated with Fluconazole (HY-10219) <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay <sup>[1]</sup>	
	Cell Line:	C. albicans, A. flavus, A. fumigatus, C. neoformans
	Concentration:	1-512 μg/mL
	Incubation Time:	24 h

## **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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