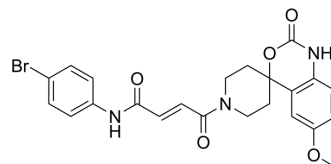


Chitin synthase inhibitor 5

Cat. No.:	HY-151410
Molecular Formula:	C ₂₃ H ₂₂ BrN ₃ O ₅
Molecular Weight:	500.34
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 5 (compound 9a) is an inhibitor of chitin synthase with an IC ₅₀ value of 0.14 mM. Chitin synthase inhibitor 5 shows broad-spectrum antifungal activity in vitro and shows good inhibition to <i>C. albicans</i> , <i>A. flavus</i> , <i>A. fumigatus</i> and <i>C. neoformans</i> . Chitin synthase inhibitor 5 can be used for the research of fungal ^[1] .
IC₅₀ & Target	IC ₅₀ : 0.14 mM (chitin synthase) ^[1]
In Vitro	Chitin synthase inhibitor 5 (300 µg/mL; 1 h) inhibits chitin synthase with an IC ₅₀ value of 0.14 mM ^[1] . Chitin synthase inhibitor 5 (1-512 µg/mL; 24 h) shows antifungal activities to <i>C. albicans</i> , <i>A. flavus</i> , <i>A. fumigatus</i> and <i>C. neoformans</i> with MIC values of 26.67, 32, 64 and 64 µg/mL, 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.

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

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