Antifungal agent 96

Cat. No.: HY-161380

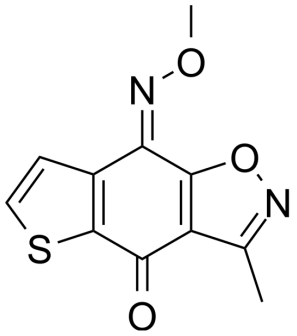
Molecular Formula: $C_{11}H_8N_2O_3S$

Molecular Weight: 248.26

Target: Fungal

Pathway: Anti-infection

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



BIOLOGICAL ACTIVITY

Description

Antifungal agent 96 (Compound WZ-2) is an antifungal agent with good blood-brain barrier permeability and brain penetration. Antifungal agent 96 inhibits the growth of C. neoformans H99 and C. albicans 0304103 with MIC values of 0.016 and 32 μg/mL, respectively[1].

In Vitro

Antifungal agent 96 (0.063, 2μg/mL; 24 h) significantly inhibits the capsule growth of C. neoformans H99[1].
Antifungal agent 96 (0.063μg/mL; 24h) inhibits the biofilm formation of C. neoformans H99 with an inhibition rate exceeding 90%[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Antifungal agent 96 (5 mg/kg; i.v.; daily; 3 days) shows potent antifungal efficacy against C. neoformans and C. albicans in mice[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	cryptococcal meningitis (CM) mice[1]
Dosage:	5 mg/kg
Administration:	IV; daily for 3 days
Result:	Significantly reduced the kidney C. albicans 0304103 burden of mice and the brain C. neoformans H99 burden of CM mice.

REFERENCES

[1]. Yang W, et al. Discovery of New Tricyclic Oxime Sampangine Derivatives as Potent Antifungal Agents for the Treatment of Cryptococcosis and Candidiasis. J Med Chem. 2024 Mar 28;67(6):4726-4738.

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

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