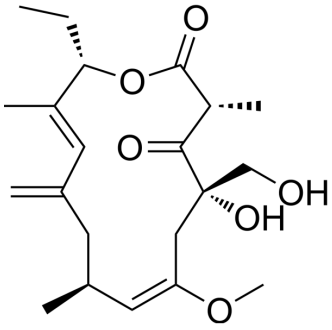
Rustmicin

Cat. No.:	HY-113637
CAS No.:	100227-57-4
Molecular Formula:	$C_{21}H_{32}O_6$
Molecular Weight:	380.48
Target:	Fungal
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Rustmicin (Galbonolide A) is a potent antifungal agent. Rustmicin inhibits inositol phosphoceramide synthase. Rustmicin shows antifungal activity[1].
In Vitro	Rustmicin (0-32 μg/mL; 24-48 h) shows antifungal activity with MICs of 0.002, 0.001, 0.0001, 0.0002, 0.015, 0.015, 0.031, 0.031 μg/mL for Cryptococcus neoformans MY1051, Cryptococcus neoformans MY1146, Cryptococcus neoformans MY2061, Cryptococcus neoformans MY2062, C. parapsilosis (MY1010), C. pseudotropicalis (MY2099), C. krusei (MY549), C. tropicalis (MY1012) strain, respectively[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Rustmicin (0, 10, 20, 40, 80 mg/kg; i.p.; twice daily for 4 days) shows antifungal activity in mouse model for cryptococcosis[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	DBA/2N mice (Cryptococcus neoformans MY2061)[1]
Dosage:	0, 10, 20, 40, 80 mg/kg
Administration:	I.p.; twice daily for 4 days
Result:	Showed a dose-dependent reduction in colony-forming units isolated from spleen and brain tissue of mice, with the ED_{99} value of 29 mg/kg for both tissues.

REFERENCES

[1]. Mandala SM, et al. Rustmicin, a potent antifungal agent, inhibits sphingolipid synthesis at inositol phosphoceramide synthase. J Biol Chem. 1998 Jun 12;273(24):14942-9.

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