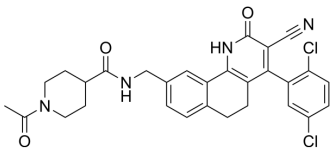
Antileishmanial agent-22

Cat. No.:	HY-155846
Molecular Formula:	$C_{29}H_{26}Cl_2N_4O_3$
Molecular Weight:	549.45
Target:	Parasite; Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Antileishmanial agent-22 (compound 15b) is a parasite inhibitor and an antibacterial agent, with antileishmanial, antimalarial, and anti-tubercular activities. Antileishmanial agent-22 inhibits leishmanial (IC_{50}=0.408 μM) based on antifolate mechanism. And, Antileishmanial agent-22 inhibits Folic acid and Folinic acid at 100 μM with inhibitory rates of 88% and 94%, respectively. Antileishmanial agent-22 inhibits P. berghei in vivo and in vitro, with 96.67% suppression under 48.4 μM/kg/day and 0.038 μM (IC_{50}), respectively. Moreover, Antileishmanial agent-22 inhibits M. tuberculosis with MIC of 28.44 μM[1].
IC_{50} & Target	IC50: 0.408 μM (leishmanial), 0.038 μM (P. berghei); MIC: 28.44 μM (M. tuberculosis)[1]
In Vivo	Antileishmanial agent-22 (compound 15b) MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Ibrahim TM, et al. Tetrahydrobenzo[h]quinoline derivatives as a novel chemotype for dual antileishmanial-antimalarial activity graced with antitubercular activity: Design, synthesis and biological evaluation. Eur J Med Chem. 2023 Sep 5;257:115534.

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