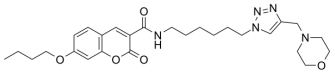
Antileishmanial agent-17

Cat. No.:	HY-149958
CAS No.:	2934738-40-4
Molecular Formula:	$C_{27}H_{37}N_5O_5$
Molecular Weight:	511.61
Target:	Parasite
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Antileishmanial agent-17 is a coumarin hybrid compound with antileishmanial effects (IC_{50} <0.78 μM). Antileishmanial agent-17 is safe to normal VERO cells. Antileishmanial agent-17 binds to folate pathway enzymes pteridine reductase and DHFR-TS. And Antileishmanial agent-17 shows the most potent with IC_{50} value of 0.40 μM against promastigote and 0.68 μM against amastigote, respectivley.
In Vitro	Antileishmanial agent-17 (compound 14b) inhibits folate pathway with inhibitory rates of 82% and 91% against Folic acid, and 88% and 91% agaisnt Folinic acid, with 20 μM and 100 μM, respectivley[1].Antileishmanial agent-17 shows insignificant cytotoxicity against African green monkey kidney cells (VERO cells), with CC_{50} of 244.3 μM[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Hassan NW, et al. Modulating leishmanial pteridine metabolism machinery via some new coumarin-1,2,3-triazoles: Design, synthesis and computational studies. Eur J Med Chem. 2023 May 5;253:115333.

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