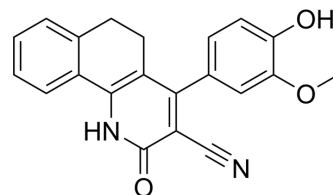


Antileishmanial agent-21

Cat. No.:	HY-155845
Molecular Formula:	C ₂₁ H ₁₆ N ₂ O ₃
Molecular Weight:	344.36
Target:	Parasite
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Antileishmanial agent-21 (compound 4e) is an antileishmanial agent that targets the Leishmania pteridine reductase 1 (Lm-PTR1). Antileishmanial agent-21 has an anti-folate mechanism, and folic acid and leucovorin can reverse the anti-leishmanial activity of Antileishmanial agent-21. Antileishmanial agent-21 inhibits the Chloroquine (HY-17589A)-resistant strain of Plasmodium falciparum (RKL9) with an IC ₅₀ of 0.0198-0.096 μM ^[1] .
IC ₅₀ & Target	Leishmania major pteridine reductase 1, Lm-PTR1 ^[1]

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..

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA