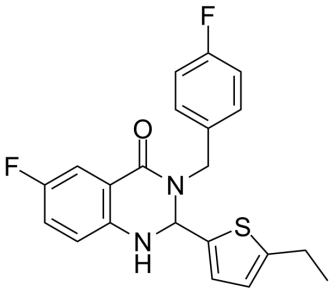
DHQZ 36

Cat. No.:	HY-123601
CAS No.:	1542098-94-1
Molecular Formula:	$C_{21}H_{18}F_2N_2OS$
Molecular Weight:	384.44
Target:	Parasite
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	DHQZ 36 is a potent inhibitor of retrograde trafficking. DHQZ 36 inhibits ***Leishmania amazonensis*** infection in macrophages with an EC_{50} of 13.63 μM. DHQZ 36 has potent anti-parasite activity[1].
IC_{50} & Target	EC50: 13.63 μM (Leishmania amazonensis)[1]
In Vitro	With increasing concentrations of DHQZ 36 there is a significant diminution in the size of parasitophorous vacuoles (LPVs), vacuole sizes are reduced by 30% at 50 μM. These parasites also cause a reduction in the number of parasites per macrophage. Significant parasite loss is observed with as low as 5 μM after treatment with DHQZ 36. Parasites are unable to recover growth when treated with DHQZ 36 at concentrations at or above 12.5 μM[1]. DHQZ 36 causes over 40% reduction in secreted of parasite proteins. DHQZ 36 causes a reversal in Leishmania induced suppression of IL-6 release by infected cells after LPS activation[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Craig E, et al. Structurally optimized analogs of the retrograde trafficking inhibitor Retro-2cycl limit Leishmania infections. PLoS Negl Trop Dis. 2017 May 15;11(5):e0005556.

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