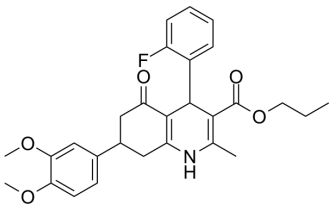
SJ000025081

Cat. No.:	HY-136448
CAS No.:	421571-66-6
Molecular Formula:	$C_{28}H_{30}FNO_5$
Molecular Weight:	479.54
Target:	Parasite
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

SJ000025081 is a dihydropyridine and acts as a potent antimalarial agent. SJ000025081 results in an obvious suppression of the parasitemia in a murine malaria model infected with P. yoelii[1].

In Vivo

SJ000025081 (intraperitoneal injection; 25 mg/kg; single dose; suspension in 1% methylcellulose) exhibits a good PK profile, the C_{max}, C_{max}/Dose, T_{max} and AUC values are 0.224 μg/ml, 0.0113 μg/ml per mg/ml, 1.0 h and 0.224 μg.h/ml, respectively[1]. SJ000025081 (intraperitoneal injection; 5-100 mg/kg; twice-daily; 3 days) exhibits an antimalarial activity in a dose-dependent manner and displays efficacy in a murine malaria model infected with P. yoelii. SJ000025081 can result in a 90% suppression of the parasitemia[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	6 weeks old CD-1 mice[1]
Dosage:	5 mg/kg; 10 mg/kg; 25 mg/kg; 50 mg/kg; 100 mg/kg
Administration:	Intraperitoneal injection; 5-100 mg/kg; twice-daily; 3 days
Result:	Was active in a malaria murine model infected with P. yoelii.

REFERENCES

[1]. W Armand Guiguemde, et al. Chemical genetics of Plasmodium falciparum. Nature.. 2010 May 20;465(7296):311-5

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