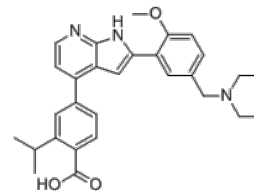


Product Name : TCMDC-135051
Cat. No. : PC-73056
CAS No. : 2413716-15-9
Molecular Formula : C₂₉H₃₃N₃O₃
Molecular Weight : 471.601
Target : Parasite
Solubility : 10 mM in DMSO



Biological Activity

TCMDC-135051 is a potent **PfCLK3** inhibitor with IC₅₀ of 40 nM.

TCMDC-135051 rapidly killed *P. falciparum* at the trophozoite to schizont stages as well as preventing the development of stage V gametocytes and inhibiting the development of liver stage parasites.

TCMDC-135051 also showed equivalent in vitro kinase activity at CLK3 from *P. falciparum*, *Plasmodium berghei* (mouse malaria), *Plasmodium vivax* (human malaria), and *Plasmodium knowlesi* (monkey and human malaria).

TCMDC-135051 inhibits in live parasite viability (parasitocidal) assays using laboratory strain 3D7 (chloroquine-sensitive) *P. falciparum* with EC₅₀ of 180 nM.

References

Alam MM, et al. *Science*. 2019 Aug 30;365(6456). pii: eaau1682.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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