

Data Sheet

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Global Supplier of Chemical Probes, Inhibitors & Agonists.

 Product Name
 : TCMDC-135051

 Cat. No.
 : PC-73056

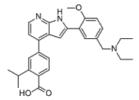
 CAS No.
 : 2413716-15-9

 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 (parasiticidal) 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!

E-mail: tech@probechem.com