
Product Data Sheet

Product Name: TCMDC-135051

Cat. No.: GC39162

Chemical Properties

Cas. No. 2413716-15-9

SMILES O=C(O)C1=CC=C(C2=C3C(NC(C4=C(OC)C=CC(CN(CC)CC)=C4)=C3)=NC=C2)C=C1C(C)C

Formula $C_{29}H_{33}N_3O_3$ M.Wt 471.59

Solubility DMSO: 250 mg/mL (530.12 mM) Storage Store at -20°C

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution: ship with blue ice All other available size: ship with RT, or Condition blue ice upon request.

Structure

Background

TCMDC-135051 is a highly selective and potent protein kinase PfCLK3 inhibitor with low off-target toxicity. TCMDC-135051 prevents trophozoite-to-schizont transition, disrupts transcription and reduces transmission to the mosquito vector. TCMDC-135051 has antiparasitidal activity (EC₅₀=320 nM)[1].

[1]. Alam MM, et al. Validation of the protein kinase PfCLK3 as a multistage cross-species malarial drug target. *Science*. 2019 Aug 30;365(6456). pii: eaau1682.

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

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