

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

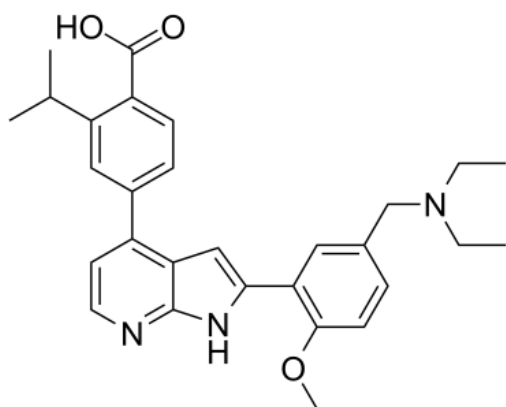
Formula $C_{29}H_{33}N_3O_3$ M.Wt 471.59

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

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

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or 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 antiparasiticidal activity ($EC_{50}=320$ nM)[1].

[1]. Alam MM, et al. Validation of the protein kinase PfCLK3 as a multistage cross-species malarial

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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drug target. Science. 2019 Aug 30;365(6456). pii: eaau1682.

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