

TCMDC-135051 TFA (2413716-15-9 free base)

Chemical Properties

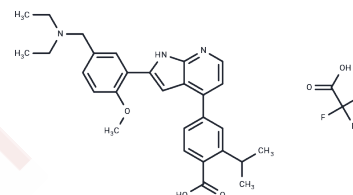
CAS No. :

Formula: C31H34F3N3O5

Molecular Weight: 585.61

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	TCMDC-135051 TFA is a highly selective and potent inhibitor of protein kinase PfCLK3.
Targets(IC50)	Others
In vitro	In a liver invasion and development assay, TCMDC-135051 TFA shows potent activity against <i>P. berghei</i> sporozoites in which the compound shows a pEC50 value of 6.17 (EC50=0.40 μM). The kinase assays using recombinant PvCLK3 (<i>P. vivax</i>) and PbCLK3 (<i>P. berghei</i>) show that TCMDC-135051 TFA has near-equipotent inhibition at these two orthologs, with pIC50 values of 7.47 (IC50=0.033 μM) and 7.86 (IC50=0.013 μM), respectively.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7076 mL	8.5381 mL	17.0762 mL
5 mM	0.3415 mL	1.7076 mL	3.4152 mL
10 mM	0.1708 mL	0.8538 mL	1.7076 mL
50 mM	0.0342 mL	0.1708 mL	0.3415 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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