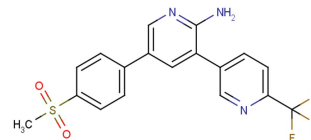


MMV390048

## Chemical Properties

CAS No.:	1314883-11-8
Formula:	C <sub>18</sub> H <sub>14</sub> F <sub>3</sub> N <sub>3</sub> O <sub>2</sub> S
Molecular Weight:	393.38
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	MMV390048 is an antimalarial agent and is a representative of a new chemical class of Plasmodium PI4K inhibitor (K <sub>dapp</sub> =0.3 μM). MMV390048 binds to the ATP binding site of Plasmodium PI4K and does not bind to other P. falciparum and human kinases apart from human PIP4K2C, thus alleviating potential kinase-mediated safety concerns.
Targets(IC <sub>50</sub> )	Plasmodium PI4K inhibitor: (K <sub>dapp</sub> ) 0.3 μM
In vitro	MMV390048 against the intraerythrocytic life cycle stages of P. falciparum displayed a steep inhibition curve (IC <sub>50</sub> : IC <sub>90</sub> values of 28 and 40 nM, respectively).

## Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.542 mL	12.71 mL	25.421 mL
5 mM	0.508 mL	2.542 mL	5.084 mL
10 mM	0.254 mL	1.271 mL	2.542 mL
50 mM	0.051 mL	0.254 mL	0.508 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

### Reference

1. Paquet T, et al. Antimalarial efficacy of MMV390048, an inhibitor of Plasmodium phosphatidylinositol 4-kinase. Sci Transl Med. 2017 Apr 26;9(387). pii: ead9735.

Inhibitors · Natural Compounds · Compound Libraries

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