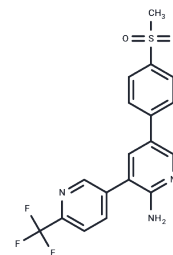


MMV390048

Chemical Properties

CAS No. : 1314883-11-8
 Formula: C₁₈H₁₄F₃N₃O₂S
 Molecular Weight: 393.38
 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	MMV390048 is an antimalarial agent and is a representative of a new chemical class of Plasmodium PI4K inhibitor (K _d =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 ₅₀)	Parasite,PI4K
In vitro	MMV390048 against the intraerythrocytic life cycle stages of P. falciparum displayed a steep inhibition curve (IC ₅₀ : IC ₉₀ values of 28 and 40 nM, respectively).

Solubility Information

Solubility	DMSO: 90 mg/mL (228.79 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5421 mL	12.7104 mL	25.4207 mL
5 mM	0.5084 mL	2.5421 mL	5.0841 mL
10 mM	0.2542 mL	1.271 mL	2.5421 mL
50 mM	0.0508 mL	0.2542 mL	0.5084 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

Paquet T, et al. Antimalarial efficacy of MMV390048, an inhibitor of Plasmodium phosphatidylinositol 4-kinase. Sci Transl Med. 2017 Apr 26;9(387). pii: eaad9735.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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