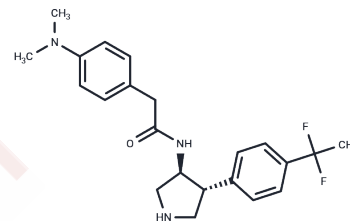


CWHM-1552

Chemical Properties

CAS No. : 2368253-58-9
 Formula: C₂₂H₂₇F₂N₃O
 Molecular Weight: 387.47
 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	CWHM-1552 is an effective Plasmodium falciparum inhibitor. For the 3D7 and Dd2 strains, the IC ₅₀ s are 51 nM and 53 nM.
Targets(IC ₅₀)	Parasite
In vivo	In P. chabaudi ASS-infected mice, oral administration of CWHM-1552 inhibits parasitemia at 99.9% and 94% at doses of 30 mg/kg and 10 mg/kg, respectively. In KM mice, intravenous injection of CWHM-1552 (2 mg/kg) shows a T _{1/2} of 2.7 h and low clearance[1].

Solubility Information

Solubility	DMSO: 55 mg/mL (141.95 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	2.5808 mL	12.9042 mL	25.8084 mL
5 mM	0.5162 mL	2.5808 mL	5.1617 mL
10 mM	0.2581 mL	1.2904 mL	2.5808 mL
50 mM	0.0516 mL	0.2581 mL	0.5162 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

Meyers MJ, et al. 4-Aryl Pyrrolidines as Novel Orally Efficacious Antimalarial Agents. Part 2: 2-Aryl-N-(4-arylpyrrolidin-3-yl) acetamides. ACS Med Chem Lett. 2019 May, 10(6):966-971.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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