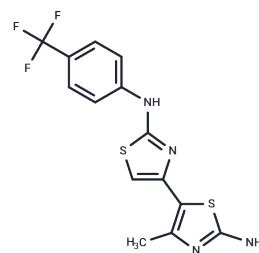


Anti-infective agent 9

Chemical Properties

CAS No. :	758689-17-7
Formula:	C14H11F3N4S2
Molecular Weight:	356.39
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	Anti-infective agent 9 (compound 1) acts as a Plasmodium falciparum inhibitor, demonstrating an IC ₅₀ of 600 nM. It effectively reduces pyruvate levels and disrupts the TCA cycle within Plasmodium. This compound also exhibits robust metabolic stability and minimal toxicity to human liver cells. Research indicates that the potential targets of Anti-infective agent 9 for inhibiting Plasmodium falciparum do not include 1-deoxy-D-xylulose-5-phosphate synthase (DXPS) [1].
Targets(IC ₅₀)	Parasite

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8059 mL	14.0296 mL	28.0591 mL
5 mM	0.5612 mL	2.8059 mL	5.6118 mL
10 mM	0.2806 mL	1.403 mL	2.8059 mL
50 mM	0.0561 mL	0.2806 mL	0.5612 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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