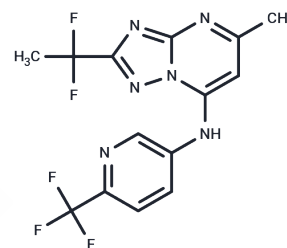


DSM421

Chemical Properties

CAS No. : 2011769-21-2
 Formula: C₁₄H₁₁F₅N₆
 Molecular Weight: 358.27
 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	DSM421 (DSM-421) is a dihydrodehydrogenase inhibitor (DHODH) that is in preclinical development as a potential treatment option for malaria and has shown activity against field isolates of both <i>P. falciparum</i> and <i>P. vivax</i> .
Targets(IC50)	Parasite, Dehydrogenase
In vivo	DSM421, a dihydroorotate dehydrogenase inhibitor, was in preclinical development as a potential treatment option for malaria. When tested in a core battery of safety pharmacology assays, DSM421 did not produce any effects at oral doses up to 750 mg/kg in an Irwin test in rats, but a respiratory study in rats using head-out plethysmography resulted in substantial changes in respiratory function as well as moribundity and mortality at that and lower doses.[1]

Solubility Information

Solubility DMSO: 10 mg/mL (27.91 mM), Sonication is recommended.
 (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7912 mL	13.956 mL	27.9119 mL
5 mM	0.5582 mL	2.7912 mL	5.5824 mL
10 mM	0.2791 mL	1.3956 mL	2.7912 mL
50 mM	0.0558 mL	0.2791 mL	0.5582 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

Phillips MA, et al. A Triazolopyrimidine-Based Dihydroorotate Dehydrogenase Inhibitor with Improved Drug-like Properties for Treatment and Prevention of Malaria. ACS Infect Dis. 2016;2(12):945-957.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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