

MMV676584

## Chemical Properties

CAS No. : 750621-19-3

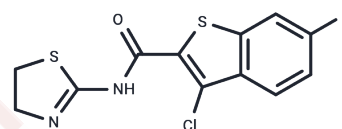
Formula: C<sub>12</sub>H<sub>8</sub>ClFN<sub>2</sub>O<sub>2</sub>S

Molecular Weight: 314.79

Keep away from direct sunlight

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	MMV676584 is a novel antimalarial lead compound with cross-lifecycle activity. It demonstrates potent parasiticidal effects against the asexual erythrocytic stage of <i>Plasmodium falciparum</i> (IC <sub>50</sub> = 1.3 μM), effectively inhibiting intraerythrocytic parasite replication.
Targets(IC <sub>50</sub> )	Parasite

## Solubility Information

Solubility	DMSO: 100 mg/mL (317.67 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	3.1767 mL	15.8836 mL	31.7672 mL
5 mM	0.6353 mL	3.1767 mL	6.3534 mL
10 mM	0.3177 mL	1.5884 mL	3.1767 mL
50 mM	0.0635 mL	0.3177 mL	0.6353 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

Cui B, Zheng BL, He K, Zheng QY. Imidazole alkaloids from *Lepidium meyenii*. J Nat Prod. 2003 Aug;66(8):1101-3.

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