

DDD01035881

## Chemical Properties

CAS No. : 1396858-56-2

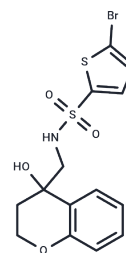
Formula: C<sub>14</sub>H<sub>14</sub>BrNO<sub>4</sub>S<sub>2</sub>

Molecular Weight: 404.3

Keep away from moisture, Store at low temperature

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	DDD01035881 is a novel and highly potent anti-malarial drug that blocks parasite-to-mosquito transmission with nanomolar activity by targeting the Plasmodium vesicle membrane protein Pfs16 and blocking the formation of male gametes in the life cycle of the malaria parasite.
Targets(IC50)	Antibiotic, Parasite
In vitro	DDD01035881 (5μM) selectively blocks Plasmodium falciparum microgametogenesis in a time-dependent manner. Treatment within 5min after activation disrupts exflagellation and cytoskeletal formation. DNA replication occurs, but structural abnormalities appear[1]. DDD01035881 interferes with Pfs16 function and localization during Plasmodium falciparum microgametogenesis. DDD01035881 blocks proper vesiculation and expulsion of the parasitophorous vacuole membrane (PVM), leading to failed or abnormal egress of gametocytes[1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4734 mL	12.3671 mL	24.7341 mL
5 mM	0.4947 mL	2.4734 mL	4.9468 mL
10 mM	0.2473 mL	1.2367 mL	2.4734 mL
50 mM	0.0495 mL	0.2473 mL	0.4947 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

Yahiya S, et al. A novel class of sulphonamides potently block malaria transmission by targeting a Plasmodium vacuole membrane protein. Dis Model Mech. 2023 Feb 1;16(2):dmm049950.

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