

MMV009085

Chemical Properties

CAS No. : 298217-59-1
 Formula: C₂₂H₂₂N₂O₆
 Molecular Weight: 410.42
 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	MMV009085 is a potent inhibitor of the Plasmodium falciparum hexose transporter (Pf HT1), with potential as an anti-malarial agent. It also inhibits the human glucose transporter, demonstrating high potency with an IC ₅₀ of 2.6 μM in glucose uptake assays and an EC ₅₀ of 1.23±0.04 μM against the 3D7 strain of the malaria parasite [1].
Targets(IC ₅₀)	Others,Parasite,transporter
In vitro	MMV009085 exhibits an inhibitory effect on PfHT-1 transport activity with an IC ₅₀ value of 212±39 μM and suppresses the growth of 3D7 and Dd2 strains with EC ₅₀ values of 1.23±0.04 μM and 0.720±0.05 μM, respectively. MMV009085's cytotoxicity in HEK293T and HepG2 cells is demonstrated by CC ₅₀ values of 2.46±0.03 μM and 1.92±0.85 μM, respectively [1]. Additionally, in glucose uptake assays with free parasites, MMV009085 shows an IC ₅₀ of 2.6 μM. In vitro, it inhibits the growth of the malaria parasite 3D7 with an EC ₅₀ of 0.987 μM and impedes parasite growth through PfHT blockade (EC ₅₀ = 0.795 μM) [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4365 mL	12.1826 mL	24.3653 mL
5 mM	0.4873 mL	2.4365 mL	4.8731 mL
10 mM	0.2437 mL	1.2183 mL	2.4365 mL
50 mM	0.0487 mL	0.2437 mL	0.4873 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481