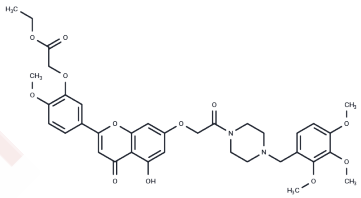
Data Sheet (Cat.No.T88148)

TargetMol

Antimalarial agent 38

Chemical Properties



CAS No. : 123580-46-1

Formula: C36H40N2O12

Molecular Weight: 692.71

Storage: Keep away from direct sunlight
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	Antimalarial agent 38 (Compound 1) demonstrates antiplasmodial activity by inhibiting multiple strains of Plasmodium falciparum, including the D6 strain, chloroquine-sensitive Thai strain, and chloroquine-resistant FcB1 and K1 strains, with IC 50 values of 0.5, 13, 1, and 13 μM, respectively. This compound is non-cytotoxic to mammalian cells MCR58 (IC 50 >140 μM) and enhances the survival rate in a Plasmodium yoelii nigeriensis-infected mouse model.
Targets(IC50)	Parasite

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4436 mL	7.218 mL	14.4361 mL
5 mM	0.2887 mL	1.4436 mL	2.8872 mL
10 mM	0.1444 mL	0.7218 mL	1.4436 mL
50 mM	0.0289 mL	0.1444 mL	0.2887 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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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481