

Antimalarial agent 23

Chemical Properties

CAS No. :

Formula: C₂₄H₂₃ClF₃N₅O

Molecular Weight: 489.92

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	Antimalarial agent 23, a benzimidazole-based compound, exhibits potent antimalarial activity, demonstrated by its low IC ₅₀ values of 0.08 μM for PfNF54 and 0.10 μM for PfK1, respectively. This compound effectively inhibits β-hematin formation, yet it does not directly interfere with the conversion of heme to hemozoin [1].
Targets(IC ₅₀)	Others,Parasite

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0411 mL	10.2057 mL	20.4115 mL
5 mM	0.4082 mL	2.0411 mL	4.0823 mL
10 mM	0.2041 mL	1.0206 mL	2.0411 mL
50 mM	0.0408 mL	0.2041 mL	0.4082 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.

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