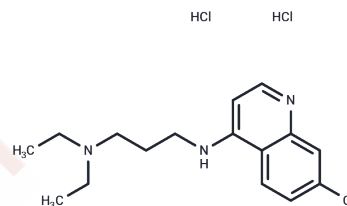


AQ-13 dihydrochloride

Chemical Properties

CAS No. : 169815-40-1
 Formula: C₁₆H₂₄Cl₃N₃
 Molecular Weight: 364.74
 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	AQ-13 dihydrochloride is an antimalarial drug. It is effective against drug-resistant strains of Plasmodium falciparum.
Targets(IC50)	Parasite
In vivo	Slight decreases in the PCE/RBC ratio are observed in male and female rats treated with CQ, and in females treated with AQ-13 alone; however, these changes are not statistically significant.

Solubility Information

Solubility	H ₂ O: 100 mg/mL (274.17 mM),Sonication is recommended. DMSO: 70 mg/mL (191.92 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.48 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7417 mL	13.7084 mL	27.4168 mL
5 mM	0.5483 mL	2.7417 mL	5.4834 mL
10 mM	0.2742 mL	1.3708 mL	2.7417 mL
50 mM	0.0548 mL	0.2742 mL	0.5483 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

Riccio ES, et al. Genetic toxicology testing of the antimalarial drugs chloroquine and a new analog, AQ-13. Environ Mol Mutagen. 2001;38(1):69-79.

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