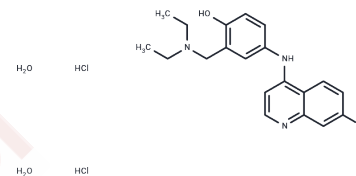


## Amodiaquine dihydrochloride dihydrate

## Chemical Properties

CAS No. :	6398-98-7
Formula:	C <sub>20</sub> H <sub>28</sub> Cl <sub>3</sub> N <sub>3</sub> O <sub>3</sub>
Molecular Weight:	464.82
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	Amodiaquine dihydrochloride dihydrate (Amodiaquine hydrochloride) is the hydrochloride salt of amodiaquine, an orally active 4-aminoquinoline derivative with antimalarial and anti-inflammatory properties.
Targets(IC50)	Histone Methyltransferase,Parasite,Histamine Receptor,NR4A
In vivo	In vivo administration of a small dose amodiaquine dramatically enhanced the effect of histamine on the gastric secretion in dogs[3]. Amodiaquine prevents severe hepatic injury and high lethality in P. acnes-primed and LPS-induced hepatitis mice. Its treatment enhances the elevation of histamine in the liver of P. acnes-primed and LPS-induced hepatitis mice without accompanying tele-methyl histamine elevation[1].
Kinase Assay	Whole-cell competitive binding assays: Whole-cell competitive binding assays are performed in LNCaP/AR(codon-switch) (LNCaP/AR(cs)) (harbors a mixture of exogenous wild-type AR and endogenous mutant AR (T877A)) and cells propagated in Iscove's or RPMI media supplemented with 10% fetal bovine serum, or during the assay with 10% charcoal-stripped, dextran-treated fetal bovine serum (CSS). Cells are pre-incubated with 18F-FDHT, increasing concentrations (1pM to 1 μM) of cold Bicalutamide are added, and the assay is performed to measure specific uptake of 18F-FDHT (4). IC50 values are determined using a one site binding model with least squares curve fitting and R2 > 0.99.

## Solubility Information

Solubility	DMSO: 85 mg/mL (182.87 mM),Sonication is recommended. H2O: 27 mg/mL (58.09 mM),Sonication is recommended. Ethanol: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (7.1 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

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.1514 mL	10.7569 mL	21.5137 mL
5 mM	0.4303 mL	2.1514 mL	4.3027 mL
10 mM	0.2151 mL	1.0757 mL	2.1514 mL
50 mM	0.043 mL	0.2151 mL	0.4303 mL

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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

Yokoyama A, et al. Eur J Pharmacol. 2007, 558(1-3):179-84.

Horton JR, et al. J Mol Biol. 2005, 353(2):334-344.

Barth H, et al. Br J Pharmacol. 1975, 55(3):321-327.

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