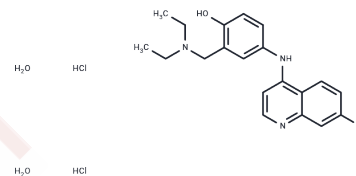


Amodiaquine dihydrochloride dihydrate

Chemical Properties

CAS No. :	6398-98-7
Formula:	C ₂₀ H ₂₈ Cl ₃ N ₃ O ₃
Molecular Weight:	464.82
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



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
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)
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Preparing Stock Solutions

	1mg	5mg	10mg
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

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.

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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