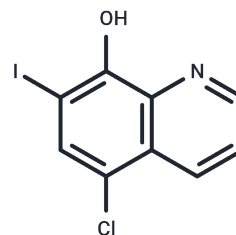


## Clioquinol

## Chemical Properties

CAS No. :	130-26-7
Formula:	C <sub>9</sub> H <sub>5</sub> ClINO
Molecular Weight:	305.5
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	Clioquinol (Iodochlorhydroxyquin) is an orally bioavailable, lipophilic, copper-binding, halogenated 8-hydroxyquinoline with antifungal, antiparasitic and potential antitumor activities.
Targets(IC50)	Mitophagy,Antibiotic,Parasite,Autophagy,Antifungal
Cell Research	DU 145 cells are plated in a 12-well plate. After incubation for 24 h, the cells are treated with 10 μM clioquinol and 50 μM ZnCl <sub>2</sub> for 2 h. AO is then added to each well (at a final concentration of 2.5 μg/ml). After 30 min of incubation with AO, cells are washed twice with HBSS and examined with a fluorescence microscope. (Only for Reference)

## Solubility Information

Solubility	H <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: 1 mg/mL (3.27 mM),Sonication is recommended. DMSO: 55 mg/mL (180.03 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2.5 mg/mL (8.18 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	3.2733 mL	16.3666 mL	32.7332 mL
5 mM	0.6547 mL	3.2733 mL	6.5466 mL
10 mM	0.3273 mL	1.6367 mL	3.2733 mL
50 mM	0.0655 mL	0.3273 mL	0.6547 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

Rohde W, et al. Antimicrob Agents ChemOthers. 1976 Aug;10(2):234-40.

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