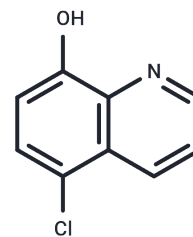


## Cloxiquine

## Chemical Properties

|                   |                                                                                                                                                               |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAS No. :         | 130-16-5                                                                                                                                                      |
| Formula:          | C <sub>9</sub> H <sub>6</sub> ClNO                                                                                                                            |
| Molecular Weight: | 179.6                                                                                                                                                         |
| Storage:          | Keep away from moisture<br>Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br><small>Actual storage temperature shall be subject to the COA.</small> |



## Biological Description

|               |                                                                                                                       |
|---------------|-----------------------------------------------------------------------------------------------------------------------|
| Description   | Cloxiquine (Dermofongin) is a monohalogenated 8-hydroxyquinoline with activity against bacteria, fungi, and protozoa. |
| Targets(IC50) | Antibacterial, Antibiotic, Parasite, Antifungal, PPAR                                                                 |

## Solubility Information

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Solubility          | DMSO: 55 mg/mL (306.24 mM), Sonication is recommended.<br>Ethanol: 33 mg/mL (183.74 mM), Sonication is recommended.<br>H <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble),<br>(< 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 (11.14 mM), Sonication is recommended.<br><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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|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 5.5679 mL | 27.8396 mL | 55.6793 mL |
| 5 mM  | 1.1136 mL | 5.5679 mL  | 11.1359 mL |
| 10 mM | 0.5568 mL | 2.784 mL   | 5.5679 mL  |
| 50 mM | 0.1114 mL | 0.5568 mL  | 1.1136 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

Latosińska JN, et al. J Mol Model. 2011 Jul;17(7):1781-800.

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