# Mequindox

**Cat. No.:** HY-131102

**CAS No.:** 13297-17-1

**Molecular Formula:** $C_{11}H_{10}N_2O_3$

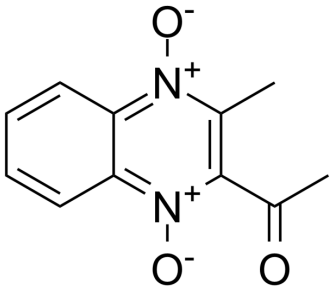
**Molecular Weight:** 218.21

**Target:** Bacterial; DNA/RNA Synthesis

**Pathway:** Anti-infection; Cell Cycle/DNA Damage

**Storage:**

| | | |
|---|---|---|
| Powder | -20°C | 3 years |
| | 4°C | 2 years |
| In solvent | -80°C | 6 months |
| | -20°C | 1 month |



## SOLVENT & SOLUBILITY

**In Vitro**

DMSO : 100 mg/mL (458.27 mM; Need ultrasonic)

**Preparing Stock Solutions**

| Solvent / Mass / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|
| 1 mM | 4.5827 mL | 22.9137 mL | 45.8274 mL |
| 5 mM | 0.9165 mL | 4.5827 mL | 9.1655 mL |
| 10 mM | 0.4583 mL | 2.2914 mL | 4.5827 mL |

Please refer to the solubility information to select the appropriate solvent.

**In Vivo**

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (11.46 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (11.46 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (11.46 mM); Clear solution

## BIOLOGICAL ACTIVITY

**Description**

Mequindox is an antimicrobial agent[1]. Mequindox acts as an inhibitor of DNA synthesis. Mequindox induces genotoxicity and carcinogenicity in mice[2].

## REFERENCES

[1]. Qianying Liu, et al. Mequindox Induced Genotoxicity and Carcinogenicity in Mice. Front Pharmacol. 2018 Apr 10;9:361.

[2]. Qianying Liu, et al. Mequindox-Induced Kidney Toxicity Is Associated With Oxidative Stress and Apoptosis in the Mouse. Front Pharmacol. 2018 May 1;9:436.



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