Broxaldine

Cat. No.: HY-B1143

CAS No.: 3684-46-6

Molecular Formula: $C_{17}H_{11}Br_2NO_2$

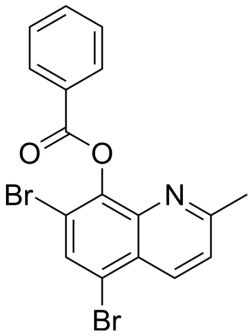
Molecular Weight: 421.08

Target: Parasite; Fungal; Bacterial

Pathway: Anti-infection

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 8.33 mg/mL (19.78 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.3748 mL	11.8742 mL	23.7485 mL
	5 mM	0.4750 mL	2.3748 mL	4.7497 mL
	10 mM	0.2375 mL	1.1874 mL	2.3748 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: ≥ 0.83 mg/mL (1.97 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 0.83 mg/mL (1.97 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Broxaldine (Brobenzoxaldine) is an antiprotozoal agent. Broxaldine inhibits ***Clostridium difficile*** with a MIC value of 4 μM, and has antifungal effects[1][2].

In Vitro

Broxaldine (Brobenzoxaldine) is an antiprotozoal drug.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Hazra SK, et al. Therapeutic trial of a combination of broxyquinoline and brobenzoxaldine in the treatment of leprosy. Lepr India. 1979 Oct;51(4):505-10.

[2]. AbdelKhalek A, et al. Screening for potent and selective anticlostridial leads among FDA-approved drugs. J Antibiot (Tokyo). 2020 Mar 4.

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