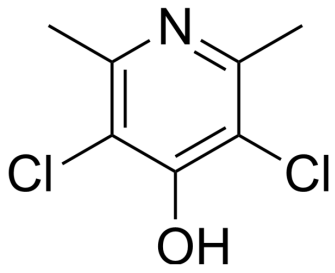
Clopidol

Cat. No.:	HY-B1088
CAS No.:	2971-90-6
Molecular Formula:	$C_7H_7Cl_2NO$
Molecular Weight:	192.04
Target:	Parasite; Antibiotic
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

0.1 M NaOH : 26 mg/mL (135.39 mM; ultrasonic and adjust pH to 3 with NaOH)
DMSO : < 1 mg/mL (insoluble or slightly soluble)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	5.2072 mL	26.0362 mL	52.0725 mL
5 mM	1.0414 mL	5.2072 mL	10.4145 mL
10 mM	0.5207 mL	2.6036 mL	5.2072 mL

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

BIOLOGICAL ACTIVITY

Description

Clopidol (WR-61112) is an anticoccidial agent which is used as feed additive to control coccidiosis in chickens. Clopidol inhibits the sporulation of Eimeria tenella oocysts[1][2].

IC_{50} & Target

Plasmodium | Coccidia

In Vitro

Clopidol is active against Plasmodium falciparum W2 (chloroquine-resistant) and FCR3 (atovaquone-resistant) strains in the low micromolar range[3].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Clopidol (31.25-93.75 mg/kg feed; p.o. for 10 d) decreases rate of oocyst sporulation of Eimeria tenella[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Pang GF, et, al. Determination of clopidol residues in chicken tissues by high-performance liquid chromatography-mass spectrometry. J Chromatogr A. 2000 Jun 16;882(1-2):85-8.

[2]. Arakawa A, et, al. Effects of clopidol on sporulation and infectivity of Eimeria tenella oocysts. Vet Parasitol. 1991 Jan;38(1):55-60.

[3]. Rodrigues T, et, al. Design, synthesis and structure-activity relationships of (1H-pyridin-4-ylidene)amines as potential antimalarials. Bioorg Med Chem Lett. 2009 Jul 1;19(13):3476-80.

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