Amprolium hydrochloride

Cat. No.: HY-B0937A

CAS No.: 137-88-2

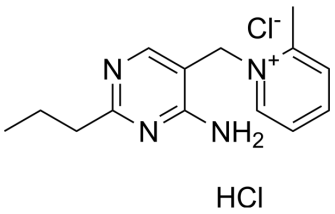
Molecular Formula: $C_{14}H_{20}Cl_2N_4$

Molecular Weight: 315.24

Target: Parasite

Pathway: Anti-infection

Storage: 4°C, sealed storage, away from moisture
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H_2O : ≥ 200 mg/mL (634.44 mM)
* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Concentration \ Solvent \ Mass	1 mg	5 mg	10 mg
1 mM	3.1722 mL	15.8609 mL	31.7219 mL
5 mM	0.6344 mL	3.1722 mL	6.3444 mL
10 mM	0.3172 mL	1.5861 mL	3.1722 mL

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

In Vivo

1. Add each solvent one by one: PBS
Solubility: 100 mg/mL (317.22 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

Amprolium hydrochloride is a coccidiostat used in poultry, is a thiamine analogue and blocks the thiamine transporter of Eimeria species by blocking thiamine uptake it prevents carbohydrate synthesis.

IC_{50} & Target

Coccidia

REFERENCES

[1]. Iqbal A, et al. Antiparasitic efficacy of Artemisia absinthium, toltrazuril and amprolium against intestinal coccidiosis in goats. J Parasit Dis. 2013 Apr;37(1):88-93.

[2]. Lindsay DS, et al. Effects of sulfadiazine and amprolium on Neospora caninum (Protozoa: Apicomplexa) infections in mice. J Parasitol. 1990 Apr;76(2):177-9.

Caution: Product has not been fully validated for medical applications. For research use only.

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