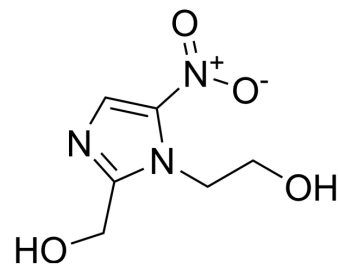


Hydroxymetronidazole

Cat. No.:	HY-136440	
CAS No.:	4812-40-2	
Molecular Formula:	C ₆ H ₉ N ₃ O ₄	
Molecular Weight:	187.15	
Target:	Bacterial; Parasite	
Pathway:	Anti-infection	
Storage:	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (534.33 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	5.3433 mL	26.7165 mL	53.4331 mL
	5 mM	1.0687 mL	5.3433 mL	10.6866 mL
	10 mM	0.5343 mL	2.6717 mL	5.3433 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (13.36 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (13.36 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (13.36 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Hydroxymetronidazole (Metronidazole-OH) is a metabolite of Metronidazole belonging to the class of nitroimidazoles. Hydroxymetronidazole can be used for the research of certain bacterial and protozoal diseases in poultry, swine dysentery and genital trichomoniasis in cattle^[1].

REFERENCES

[1]. Rodrigo H M M Granja, et al. Determination and confirmation of metronidazole, dimetridazole, ronidazole and their metabolites in bovine muscle by LC-MS/MS. Food Addit Contam Part A Chem Anal Control Expo Risk Assess. 2013;30(6):970-6.

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

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