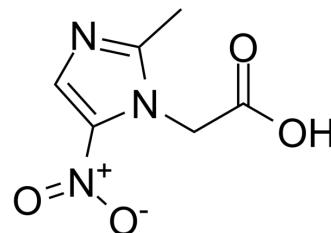


Metronidazole acetic acid

Cat. No.:	HY-115249		
CAS No.:	1010-93-1		
Molecular Formula:	C ₆ H ₇ N ₃ O ₄		
Molecular Weight:	185.14		
Target:	Bacterial; Parasite; Antibiotic		
Pathway:	Anti-infection		
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 : 250 mg/mL (1350.33 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	5.4013 mL	27.0066 mL	54.0132 mL
	5 mM	1.0803 mL	5.4013 mL	10.8026 mL
	10 mM	0.5401 mL	2.7007 mL	5.4013 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: ≥ 2.08 mg/mL (11.23 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (11.23 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (11.23 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Metronidazole acetic acid is a metabolite of Metronidazole with mutagenic activity in bacteria. Metronidazole is a nitroimidazole antibiotic, amebicide, and antiprotozoal agent used particularly for anaerobic bacteria and protozoa^{[1][2][3]}.

REFERENCES

- [1]. M Chacko, et al. Studies on the Possible Mutagenic Action of Metronidazole. Indian J Exp Biol. 1987 Apr;25(4):240-3.

[2]. M D Mudry, et al. Mutagenic Bioassay of Certain Pharmacological Drugs: III. Metronidazole (MTZ). Mutat Res. 1994 Mar 1;305(2):127-32.

[3]. In Schaechter, M.; Engleberg, N. C.; DiRita, V. J. et al. Schaechter's Mechanisms of Microbial Disease. Hagerstown, MD: Lippincott Williams & Wilkins, p. 28.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA