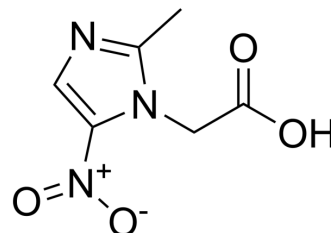


## Metronidazole acetic acid

<b>Cat. No.:</b>	HY-115249		
<b>CAS No.:</b>	1010-93-1		
<b>Molecular Formula:</b>	C <sub>6</sub> H <sub>7</sub> N <sub>3</sub> O <sub>4</sub>		
<b>Molecular Weight:</b>	185.14		
<b>Target:</b>	Bacterial; Parasite; Antibiotic		
<b>Pathway:</b>	Anti-infection		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 250 mg/mL (1350.33 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
<b>Preparing Stock Solutions</b>	<b>1 mM</b>	5.4013 mL	27.0066 mL	54.0132 mL
	<b>5 mM</b>	1.0803 mL	5.4013 mL	10.8026 mL
	<b>10 mM</b>	0.5401 mL	2.7007 mL	5.4013 mL
Please refer to the solubility information to select the appropriate solvent.				
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.08 mg/mL (11.23 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (11.23 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.08 mg/mL (11.23 mM); Clear solution</li> </ol>			

### BIOLOGICAL ACTIVITY

<b>Description</b>	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 <sup>[1][2][3]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Amebae

### REFERENCES

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[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.

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

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