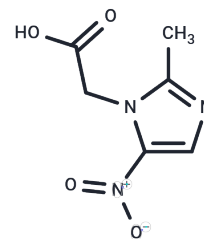


Metronidazole acetic acid

Chemical Properties

CAS No. :	1010-93-1
Formula:	C ₆ H ₇ N ₃ O ₄
Molecular Weight:	185.1375
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Metronidazole (acetic acid) is a metabolite derived from Metronidazole, exhibiting mutagenic activity in bacteria. As a nitroimidazole antibiotic, amebicide, and antiprotozoal agent, Metronidazole is specifically utilized against protozoa and anaerobic bacteria.
Targets(IC50)	Antibacterial, Antibiotic, Parasite

Solubility Information

Solubility	DMSO: 200 mg/mL (1080.28 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (17.82 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.108 mL	0.5401 mL	1.0803 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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

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

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