

## Ronidazole

## Chemical Properties

CAS No. : 7681-76-7

Formula: C<sub>6</sub>H<sub>8</sub>N<sub>4</sub>O<sub>4</sub>

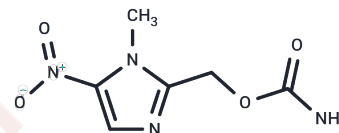
Molecular Weight: 200.15

Storage:

Keep away from direct sunlight, Keep away from moisture, Store at low temperature

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	Ronidazole (Ronidazol) is an antiprotozoal and antimicrobial agent used mainly in veterinary practice.
Targets(IC50)	Antibacterial, Antibiotic, Parasite
In vitro	In cats, Ronidazole (30 or 50 mg/kg) is effective in treating fetal infections caused by Tritrichomonas.
In vivo	Ronidazole exhibits antiprotozoal activity. In vitro, Ronidazole (>0.1 µg/ml) is capable of killing Tritrichomonas.

## Solubility Information

Solubility	DMSO: 250 mg/mL (1249.06 mM), Sonication is recommended. H <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (9.99 mM), Sonication is recommended. 10% DMSO+90% Saline: 10 mg/mL (49.96 mM), Solution. <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

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	1mg	5mg	10mg
1 mM	4.9963 mL	24.9813 mL	49.9625 mL
5 mM	0.9993 mL	4.9963 mL	9.9925 mL
10 mM	0.4996 mL	2.4981 mL	4.9963 mL
50 mM	0.0999 mL	0.4996 mL	0.9993 mL

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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

Lim S, et al. Korean J Parasitol, 2012, 50(2), 161-164.

Lai S, Kumari A, Liu J, et al. Chemical screening reveals Ronidazole is a superior prodrug to Metronidazole for nitroreductase-induced cell ablation system in zebrafish larvae. Journal of Genetics and Genomics. 2021

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