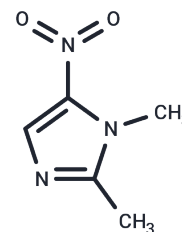


## Dimetridazole

## Chemical Properties

CAS No. :	551-92-8
Formula:	C <sub>5</sub> H <sub>7</sub> N <sub>3</sub> O <sub>2</sub>
Molecular Weight:	141.13
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	Dimetridazole (1, 2-Dimethyl-5-nitroimidazole) is a drug that combats protozoan infections. It is a nitroimidazole class drug. It has been banned by the Canadian government as a livestock feed additive.
Targets(IC50)	Antibacterial, Antibiotic, Parasite

## Solubility Information

Solubility	DMSO: 60.63 mg/mL (429.6 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 6.06 mg/mL (42.94 mM), Solution. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (14.17 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	7.0857 mL	35.4283 mL	70.8567 mL
5 mM	1.4171 mL	7.0857 mL	14.1713 mL
10 mM	0.7086 mL	3.5428 mL	7.0857 mL
50 mM	0.1417 mL	0.7086 mL	1.4171 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

Dalton P. Vet Rec. 1996 Oct 19;139(16):399.

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