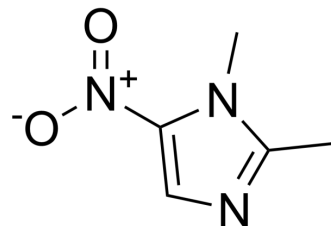


Dimetridazole

Cat. No.:	HY-B1244		
CAS No.:	551-92-8		
Molecular Formula:	C ₅ H ₇ N ₃ O ₂		
Molecular Weight:	141.13		
Target:	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 : 50 mg/mL (354.28 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	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

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: ≥ 2.5 mg/mL (17.71 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (17.71 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (17.71 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Dimetridazole (1,2-Dimethyl-5-nitroimidazole), a nitroimidazole-based antibiotic, combats protozoan infections^[1].

CUSTOMER VALIDATION

- Research Square Preprint. 2021 Aug.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Zaghdoudi M, et al. Direct and indirect electrochemical reduction prior to a biological treatment for dimetridazole removal. J Hazard Mater. 2017 Aug 5;335:10-17.

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

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