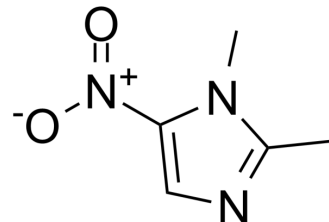


Dimetridazole

| | | | |
|--------------------|-------------------------------------------------------------|-------|----------|
| 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)

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