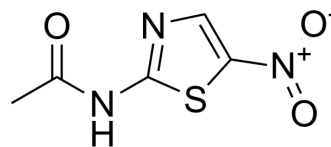


Nithiamide

Cat. No.:	HY-B0992	
CAS No.:	140-40-9	
Molecular Formula:	C ₅ H ₅ N ₃ O ₃ S	
Molecular Weight:	187.18	
Target:	Bacterial; Antibiotic	
Pathway:	Anti-infection	
Storage:	Powder	-20°C 3 years 4°C 2 years
	In solvent	-80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (534.25 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	5.3425 mL	26.7123 mL	53.4245 mL
	5 mM	1.0685 mL	5.3425 mL	10.6849 mL
	10 mM	0.5342 mL	2.6712 mL	5.3425 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 (13.36 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (13.36 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Nithiamide is a non-5-nitroimidazole drugs, is a antibiotic used in veterinary.

CUSTOMER VALIDATION

- ACS Omega. 2020 Oct 12;5(41):26551-26561.
- Research Square Preprint. 2021 Aug.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Layton HW, et al. Efficacy of nithiamide in preventing and treating swine dysentery in experimentally inoculated pigs. Am J Vet Res. 1977 May;38(5):627-31.

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

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