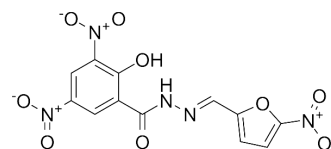


Nifursol

Cat. No.:	HY-B1703		
CAS No.:	16915-70-1		
Molecular Formula:	C ₁₂ H ₇ N ₅ O ₉		
Molecular Weight:	365.21		
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 : 50 mg/mL (136.91 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.7382 mL	13.6908 mL	27.3815 mL
		5 mM	0.5476 mL	2.7382 mL	5.4763 mL
10 mM		0.2738 mL	1.3691 mL	2.7382 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.85 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Nifursol is a potent and orally active veterinary antibiotic for the prevention of histomoniasis. Nifursol rapidly metabolizes to form the metabolic marker 3,5-dinitrosalicylic acid hydrazide (DNSAH) which can persist for a long time. Nifursol is widely used for the research of Escherichia Gastroenteropathy in poultry, fowl and aquatic animal ^{[1][2]} .
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CUSTOMER VALIDATION

- Research Square Preprint. 2021 Aug.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Bowen TE, et al. Effect of cupric sulfate on the prophylactic efficacy of 2-acetylamino-5-nitrothiazole, nifursol and ipronidazole against histomoniasis in turkeys. Poultr Sci. 1971 Nov;50(6):1668-72.
- [2]. Jorge Barbosa, et al. Detection, accumulation, distribution, and depletion of furaltadone and nifursol residues in poultry muscle, liver, and gizzard. J Agric Food Chem. 2011 Nov 23;59(22):11927-34.
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Caution: Product has not been fully validated for medical applications. For research use only.

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