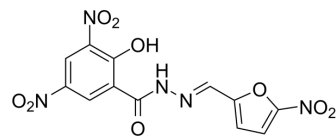


Nifursol

| | | | |
|--------------------|--|-------|----------|
| Cat. No.: | HY-B1703 | | |
| CAS No.: | 16915-70-1 | | |
| Molecular Formula: | C ₁₂ H ₇ N ₃ 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 | 6 months |
| | | -20°C | 1 month |



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]} . |
|-------------|--|

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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