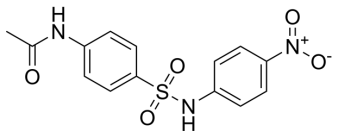
Sulfanitran

Cat. No.:	HY-B0947
CAS No.:	122-16-7
Molecular Formula:	$C_{14}H_{13}N_3O_5S$
Molecular Weight:	335.34
Target:	Bacterial
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 : ≥ 22 mg/mL (65.61 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.9820 mL	14.9102 mL	29.8205 mL
5 mM	0.5964 mL	2.9820 mL	5.9641 mL
10 mM	0.2982 mL	1.4910 mL	2.9820 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: ≥ 2.08 mg/mL (6.20 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (6.20 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Sulfanitran is an antibacterial and anticoccidial agent used in poultry feeds. Sulfanitran also is a multidrug resistance protein 2 (MRP2) stimulator that can increase the affinity of MRP2 for estradiol-17-β-D-glucuronide (E217βG)[1][2].

REFERENCES

[1]. Eaves KL, et, al. High pressure liquid chromatographic determination of sulfanitran and dinsed in medicated feeds and premixes. J Assoc Off Anal Chem. 1977 Sep;60(5):1064-6.

[2]. Zelcer N, et, al. Evidence for two interacting ligand binding sites in human multidrug resistance protein 2 (ATP binding cassette C2). J Biol Chem. 2003 Jun 27;278(26):23538-44.

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