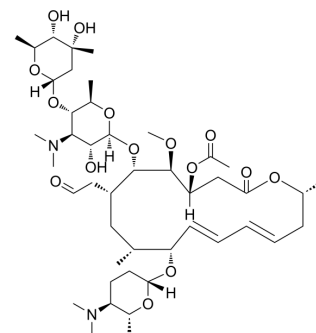


## Acetylspiramycin

Cat. No.:	HY-B1916
CAS No.:	24916-51-6
Molecular Formula:	C <sub>45</sub> H <sub>76</sub> N <sub>2</sub> O <sub>15</sub>
Molecular Weight:	885.09
Target:	Bacterial; Antibiotic; Parasite
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 (56.49 mM)  
 \* "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		1.1298 mL	5.6491 mL	11.2983 mL
	5 mM		0.2260 mL	1.1298 mL	2.2597 mL
	10 mM		0.1130 mL	0.5649 mL	1.1298 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 (2.82 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
 Solubility: ≥ 2.5 mg/mL (2.82 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Acetylspiramycin (Spiramycin B; Spiramycin II; Foromacidin B) is a potent and orally active macrolide antibiotic produced by various *Streptomyces* species, an acetylated derivative of Spiramycin (HY-100593). Acetylspiramycin is an antimicrobial agent with activity against gram-positive organisms, including *Streptococcus pyogenes*, *S. viridans*, *Corynebacterium diphtheriae* and methicillin-sensitive *Staphylococcus aureus*. Acetylspiramycin is also a potent antiparasitic agent that against parasitic infection caused by *Cryptosporidium* spp<sup>[1][2]</sup>.

#### IC<sub>50</sub> & Target

Macrolide

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## CUSTOMER VALIDATION

- Acta Pharm Sin B. 2021 Mar 11.
- Cell Prolif. 2021 Jan;54(1):e12953.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

- [1]. Min-Zhu Huang, et al. Therapeutic effects of acetylspiramycin and garlicin on cryptosporidiosis among drug users. Int J Parasitol Drugs Drug Resist
- [2]. Acetylspiramycin
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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