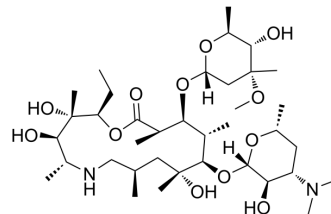


## Azathramycin

<b>Cat. No.:</b>	HY-17442		
<b>CAS No.:</b>	76801-85-9		
<b>Molecular Formula:</b>	C <sub>37</sub> H <sub>70</sub> N <sub>2</sub> O <sub>12</sub>		
<b>Molecular Weight:</b>	734.96		
<b>Target:</b>	Bacterial; Antibiotic		
<b>Pathway:</b>	Anti-infection		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 33.33 mg/mL (45.35 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.3606 mL	6.8031 mL	13.6062 mL
	5 mM	0.2721 mL	1.3606 mL	2.7212 mL
	10 mM	0.1361 mL	0.6803 mL	1.3606 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 (3.40 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (3.40 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (3.40 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Azathramycin (Azaerythromycin A) is an antibiotic and targets ribosome<sup>[1]</sup>.

### REFERENCES

[1]. John P. Santa Maria, Jr., et al. Linking High-Throughput Screens to Identify MoAs and Novel Inhibitors of Mycobacterium tuberculosis Dihydrofolate Reductase. ACS

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

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