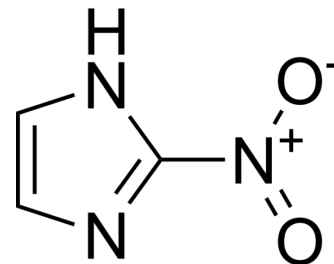


## Azomycin

Cat. No.:	HY-N0195		
CAS No.:	527-73-1		
Molecular Formula:	C <sub>3</sub> H <sub>3</sub> N <sub>3</sub> O <sub>2</sub>		
Molecular Weight:	113.07		
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 (442.20 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM		8.8441 mL	44.2204 mL	88.4408 mL
		5 mM		1.7688 mL	8.8441 mL	17.6882 mL
		10 mM		0.8844 mL	4.4220 mL	8.8441 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.67 mg/mL (23.61 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.67 mg/mL (23.61 mM); Clear solution</li> </ol>					

### BIOLOGICAL ACTIVITY

Description	Azomycin (2-Nitroimidazole) is an antibiotic which can be active against aerobic Gram-positive and Gram-negative bacteria.
IC <sub>50</sub> & Target	Bacterial <sup>[1]</sup>
In Vitro	<p>Azomycin is an antibiotic which can be active against aerobic Gram-positive and Gram-negative bacteria. It is found that Azomycin is also active against a variety of anaerobic bacteria<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

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## REFERENCES

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[1]. Shoji JH, et al. Isolation of azomycin from *Pseudomonas fluorescens*. *J Antibiot (Tokyo)*. 1989 Oct;42(10):1513-4.

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

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