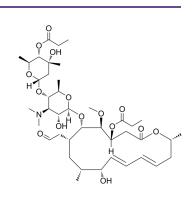
## Midecamycin

Cat. No.:	HY-B1908				
CAS No.:	35457-80-8				
Molecular Formula:	C <sub>41</sub> H <sub>67</sub> NO <sub>15</sub>				
Molecular Weight:	813.97				
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	0	DMSO : ≥ 36 mg/mL (44.23 mM) * "≥" means soluble, but saturation unknown.					
		Solvent Mass Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	1.2285 mL	6.1427 mL	12.2855 mL		
		5 mM	0.2457 mL	1.2285 mL	2.4571 mL		
		10 mM	0.1229 mL	0.6143 mL	1.2285 mL		
	Please refer to the sol	Please refer to the solubility information to select the appropriate solvent.					
		1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.25 mg/mL (2.76 mM); Clear solution					
		2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.25 mg/mL (2.76 mM); Clear solution					
		ent one by one: 10% DMSO >> 90% corn oil 25 mg/mL (2.76 mM); Clear solution					

<b>BIOLOGICAL ACTIV</b>	ТТҮ
Description	Midecamycin, an acetoxy-substituted macrolide antibiotic, is tested against gram-positive and gram-negative bacteria.
IC <sub>50</sub> & Target	Macrolide
In Vitro	Midecamycin inhibits the majority of streptococci, staphylococci, and strains of Haemophilus and Listeria at concentrations of less than 3.1 μg/mL <sup>[1]</sup> . Midecamycin is a 16-membered macrolide. Midecamycin is a new macrolide antibiotic, which is



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#### produced by Streptomyces mycarofaciens<sup>[2]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

#### **CUSTOMER VALIDATION**

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

See more customer validations on www.MedChemExpress.com

#### REFERENCES

[1]. Neu HC. In vitro activity of midecamycin, a new macrolide antibiotic. Antimicrob Agents Chemother. 1983 Sep;24(3):443-4.

[2]. Cong L, et al. Cloning and characterization of genes encoded in dTDP-D-mycaminose biosynthetic pathway from amidecamycin-producing strain, Streptomyces mycarofaciens. Acta Biochim Biophys Sin (Shanghai). 2007 Mar;39(3):187-93.

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

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