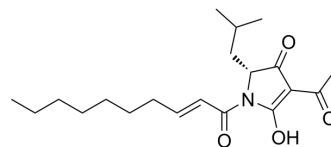


## Reutericyclin

Cat. No.:	HY-103249		
CAS No.:	303957-69-9		
Molecular Formula:	C <sub>20</sub> H <sub>31</sub> NO <sub>4</sub>		
Molecular Weight:	349.46		
Target:	Bacterial; Antibiotic		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 33.33 mg/mL (95.38 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.8616 mL	14.3078 mL	28.6156 mL
		5 mM	0.5723 mL	2.8616 mL	5.7231 mL
		10 mM	0.2862 mL	1.4308 mL	2.8616 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: 2.5 mg/mL (7.15 mM); Suspended solution; Need ultrasonic				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (7.15 mM); Suspended solution; Need ultrasonic				

### BIOLOGICAL ACTIVITY

Description	Reutericyclin (Reutericycline), a unique tetramic acid, is an antibiotic produced by some strains of <i>Lactobacillus reuteri</i> . Reutericyclin (Reutericycline) exhibits a broad inhibitory spectrum including <i>Lactobacillus</i> spp., <i>Bacillus subtilis</i> , <i>B. cereus</i> , <i>Enterococcus faecalis</i> , <i>Staphylococcus aureus</i> , and <i>Listeria innocua</i> <sup>[1][2]</sup> .
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### REFERENCES

[1]. Lin XB, et al. Genetic determinants of reutericyclin biosynthesis in *Lactobacillus reuteri*. *Appl Environ Microbiol.* 2015 Mar;81(6):2032-41.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA