

Product Name: Reutericyclin Revision Date: 01/10/2020

### **Product Data Sheet**

# Reutericyclin

**Cat. No.:** N2833

**CAS No.:** 303957-69-9 **Formula:** C20H31NO4

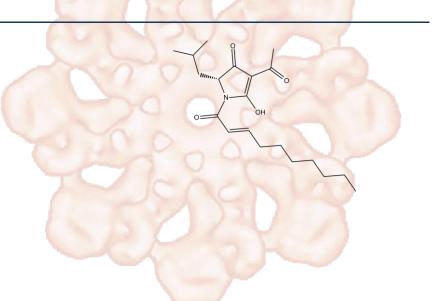
**M.Wt:** 349.47

Synonyms:

Target: Microbiology & Virology

Pathway: Antibiotic

Storage: Store at -20°C



# Solvent & Solubility

Soluble in DMSO

In Vitro

Preparing Stock Solutions	Solvent Concentration	1mg	5mg	10mg
	1 mM	2.8615 mL	14.3074 mL	28.6148 mL
	5 mM	0.5723 mL	2.8615 mL	5.7230 mL
	10 mM	0.2861 mL	1.4307 mL	2.8615 mL

Please refer to the solubility information to select the appropriate solvent.

## **Biological Activity**

Shortsummary	A small molecular weight antibiotic isolated from Lactobacillus reuteri			
IC <sub>50</sub> & Target				
In Vitro	Cell Viability Assay			
	Cell Line:	C. difficile 9689 (toxinotype 0), BAA-1803 (toxinotype III, NAP1) and		
		BAA-1875 (toxinotype V, NAP7)		
	Preparation method:	Limited solubility. General tips for obtaining a higher concentration: Please		
		warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for		
		a while. Stock solution can be stored below -20°C for several months.		
	Reacting conditions:	37°C		
	Applications:	Reutericyclin is very active against three unrelated tests trains, with mean MICs		

		of 0.09-0.5 mg/L. Moreover, Reutericyclin is bactericidal, causing a >3 log	
		reduction in cells and retains potent bactericidal activity against all 24 h	
		stationary phase cultures. It also shows fast concentration dependent killing.	
In Vivo	Animal experiment		
	Applications:		

### **Product Citations**

See more customer validations on www.apexbt.com.

#### References

1. Hurdle JG, Heathcott AE, Yang L, Yan B, Lee RE. Reutericyclin and related analogues kill stationary phase Clostridium difficile at achievable colonic concentrations. J Antimicrob Chemother. 2011 Aug; 66(8):1773-6.

#### Caution

#### FOR RESEARCH PURPOSES ONLY.

#### NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

### **APExBIO Technology**

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