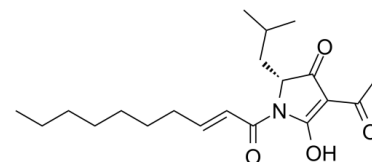


## Data Sheet

<b>Product Name:</b>	Reutericyclin
<b>Cat. No.:</b>	CS-0026201
<b>CAS No.:</b>	303957-69-9
<b>Molecular Formula:</b>	C <sub>20</sub> H <sub>31</sub> NO <sub>4</sub>
<b>Molecular Weight:</b>	349.46
<b>Target:</b>	Antibiotic; Bacterial
<b>Pathway:</b>	Anti-infection
<b>Solubility:</b>	DMSO : 33.33 mg/mL (95.38 mM; Need ultrasonic)



### BIOLOGICAL ACTIVITY:

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

### References:

- [1]. Lin XB, et al. Genetic determinants of reutericyclin biosynthesis in *Lactobacillus reuteri*. *Appl Environ Microbiol.* 2015 Mar;81(6):2032-41.
- [2]. Gänzle MG, et al. Characterization of reutericyclin produced by *Lactobacillus reuteri* LTH2584. *Appl Environ Microbiol.* 2000 Oct;66(10):4325-33.

### CAIndexNames:

3H-Pyrrol-3-one, 4-acetyl-1,2-dihydro-5-hydroxy-2-(2-methylpropyl)-1-[(2E)-1-oxo-2-decen-1-yl]-, (2R)-

### SMILES:

O=C1[C@@H](CC(C)C)N(C/C=C/CCCCC=O)C(O)=C1C(C)=O

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

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