

Reutericyclin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Reutericyclin

Catalog No.: CFN00135

Cas No.: 303957-69-9

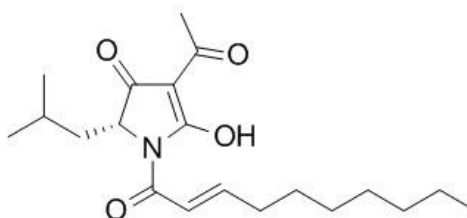
Purity: > 95%

M.F: C₂₀H₃₁NO₄

M.W: 349.47

Physical Description: Powder

Synonyms:



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Food research;
4. Synthetic precursor compounds;
5. Intermediates & Fine Chemicals;
6. Others.

[Source]

From *Lactobacillus reuteri*.

[Biological Activity or Inhibitors]

All reutericyclins can inhibit the growth of clinical isolates of drug-resistant *Staphylococcus aureus*, which exemplify the prospect of developing reutericyclins as new topical antibiotics.^[1]

Reutericyclins show excellent potency against the lethal non-growing stage of *C. difficile* at concentrations that may be attained in the gastrointestinal tract, they represent novel potential treatments for *C. difficile* infection.^[2]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[HPLC Method]^[3]

Mobile phase: Acetonitrile- 0.1% Trifluoroacetic acid H₂O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 280 nm.

[Storage]

2-8°C, Protected from air and light, refrigerate or freeze.

[References]

[1] Hurdle J G, Yendapally R, Sun D Q, *et al. Antimicrob. Agents Ch.*, 2009, 53(9):4028-31.

[2] Hurdle J G, Heathcott A E, Yang L, *et al. J. Antimicrob. Chemoth.*, 2011, 66(8):1773-6.

[3] Gänzle M G, Vogel R F. *Int. J. Food Microbiol.*, 2003, 80(1):31-45.

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