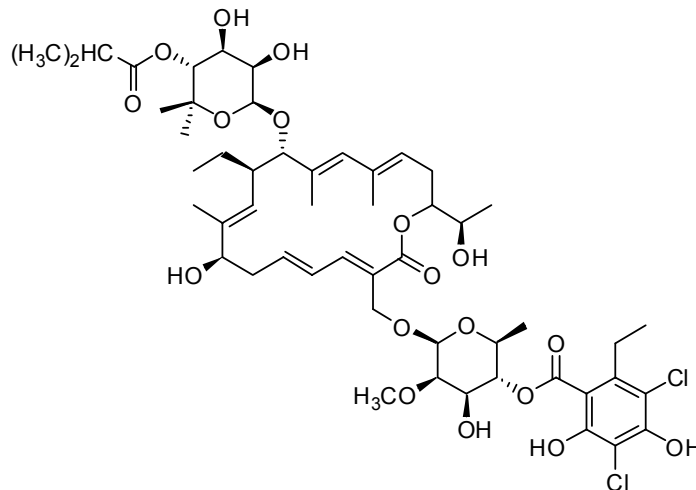


Fidaxomicin

Code: **BIA-F1356**

Pack sizes: **1 mg, 5 mg**



Synonyms : **Clostomicin B1, Lipiarmycin A3, Tiacumicin B, OPT 80**

Specifications

CAS # : **873857-62-6**
Molecular Formula : **C₅₂H₇₄Cl₂O₁₈**
Molecular Weight : **1058.0**
Source : ***Dactylosporium aurantiacum***
Appearance : **White solid**
Purity : **>98%**
Storage : **-20°C**
Solubility : **Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.**

Application Notes

Fidaxomicin is a recently approved antibiotic with a confusing history dating back to its original isolation in 1975. Fidaxomicin is the major analogue of a family of macrocyclic lactones isolated independently by three different groups from cultures belonging to three different genera (*Actinoplanes*, *Dactylosporangium* and *Micromonospora*) known as lipiarmycin A3, tiacumicin B and clostomicin B1, respectively. Fidaxomicin is a narrow spectrum antibiotic with excellent activity against Gram positive bacteria, notably *Clostridium difficile*. Fidaxomicin acts in the gastrointestinal tract without undue disruption to gut microbial flora.

References

1. Lipiarmycin, a new antibiotic from *Actinoplanes*. I. Description of the producer strain and fermentation studies. Parenti F. *et al.* J. Antibiot. **1975**, 28, 247.
2. Clostomicins, new antibiotics produced by *Micromonospora echinospora* subsp. *armeniaca* subsp. *nov.* I. Production. Omura S. *et al.* J. Antibiot. **1986**, 39, 1407.
3. Tiacumicins, a novel complex of 18-membered macrolide antibiotics. I. Taxonomy, fermentation and antibacterial activity. Theriault R.J. *et al.* J. Antibiot. **1987**, 40, 567.
4. Tiacumicin B: macrolide antibiotic treatment of *C. difficile*-associated diarrhoea. Reville P. *et al.* Drugs of the Future **2006**, 31, 494.