



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

# Product Information

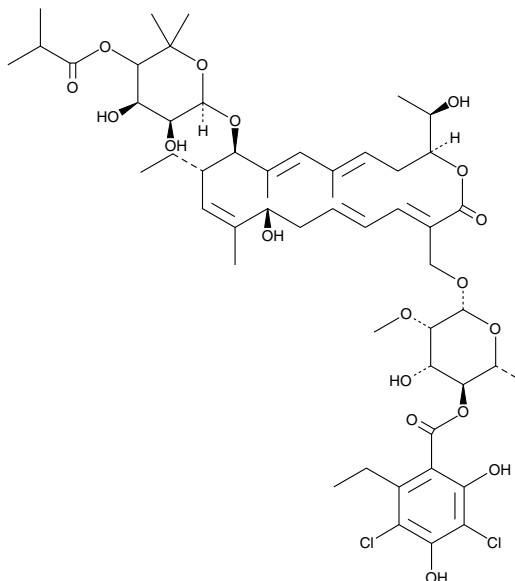


## Fidaxomycin

Item No. 15503

**CAS Registry No.:** 873857-62-6  
**Formal Name:** (3E,5E,8S,9E,11S,12R,13E,15E,18S)-3-[[[6-deoxy-4-O-(3,5-dichloro-2-ethyl-4,6-dihydroxybenzoyl)-2-O-methyl-β-D-mannopyranosyl]oxy]methyl]-12-[[6-deoxy-5-C-methyl-4-O-(2-methyl-1-oxopropyl)-β-D-lyxo-hexopyranosyl]oxy]-11-ethyl-8-hydroxy-18-[(1R)-1-hydroxyethyl]-9,13,15-trimethyl-oxacyclooctadeca-3,5,9,13,15-pentaen-2-one  
**Synonyms:** Clostomicin B<sub>1</sub>, Difimicin, Lipiarmicin, OPT-80, PAR-101, Tiacumicin B

**MF:** C<sub>52</sub>H<sub>74</sub>Cl<sub>2</sub>O<sub>18</sub>  
**FW:** 1,058.0  
**Purity:** ≥95%  
**Stability:** ≥2 years at -20°C  
**Supplied as:** A crystalline solid  
**UV/Vis.:** λ<sub>max</sub>: 230, 268 nm



### Laboratory Procedures

For long term storage, we suggest that fidaxomycin be stored as supplied at -20°C. It should be stable for at least two years.

Fidaxomycin is supplied as a crystalline solid. A stock solution may be made by dissolving the fidaxomycin in the solvent of choice. Fidaxomycin is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of fidaxomycin in ethanol is approximately 5 mg/ml and approximately 2 mg/ml in DMSO and DMF.

Fidaxomycin is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, fidaxomycin should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Fidaxomycin has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Fidaxomycin is a natural macrocyclic antibiotic that inhibits RNA polymerase with selectivity for Gram-positive bacteria over Gram-negative bacteria (IC<sub>50</sub>s = 0.4 and 6 μM, respectively).<sup>1</sup> It has potent antibacterial activity against most Gram-positive bacteria and effectively targets the Gram-positive *C. difficile* (MIC = 12 ng/ml).<sup>1</sup> Orally administered fidaxomycin exhibits minimal systemic bioavailability resulting in maximal gastrointestinal tract distribution.<sup>1</sup> Fidaxomycin is effective in clearing *C. difficile* infections while sparing Gram-negative bacteria in the gut.<sup>2-3</sup>

### References

1. Srivastava, A., Talaue, M., Liu, S., *et al.* New target for inhibition of bacterial RNA polymerase: "Switch region". *Curr. Opin. Microbiol.* **14**(5), 532-543 (2011).
2. Louie, T.J., Emery, J., Krulicki, W., *et al.* OPT-80 eliminates *Clostridium difficile* and is sparing of *Bacteroides* species during treatment of *C. difficile* infection. *Antimicrob. Agents Chemother.* **53**(1), 261-263 (2009).
3. Louie, T.J., Miller, M.A., Mullane, K.M., *et al.* Fidaxomicin versus vancomycin for *Clostridium difficile* infection. *N. Engl. J. Med.* **364**(5), 422-431 (2011).

### Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/15503](http://www.caymanchem.com/catalog/15503)

**WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

#### SAFETY DATA

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### Cayman Chemical

**Mailing address**  
1180 E. Ellsworth Road  
Ann Arbor, MI  
48108 USA

**Phone**  
(800) 364-9897  
(734) 971-3335

**Fax**  
(734) 971-3640

**E-Mail**  
custserv@caymanchem.com

**Web**  
[www.caymanchem.com](http://www.caymanchem.com)