



Product Information

Product ID F285081

CAS No. 873857-62-6

Chemical Name [(2R,3S,4S,5S,6R)-6-[[[(3E,5E,8S,9E,11S,12R,13E,15E,18S)-12-[(2R,3S,4R,5S)-3,4-dihydroxy-6,6-dimethyl-5-(2-methylpropanoyloxy)oxan-2-yl]oxy-11-ethyl-8-hydroxy-18-[(1R)-1-hydroxyethyl]-9,13,15-

Synonym Clostomicin B1, Difacid, Dificlir, lipiarmicin lipiarmycin, lipiarmycin A3, tiacumicin B.

Formula C₅₂H₇₄Cl₂O₁₈

Formula Wt. 1058.05

Melting Point

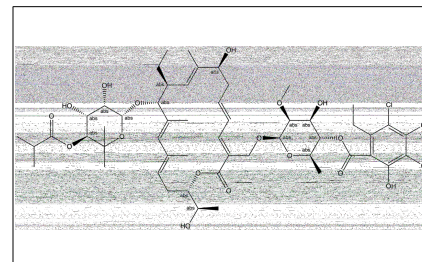
Purity ≥98%

Solubility Insoluble in water, soluble in CHCl₃(10 mg/ml), methanol(10 mg/ml), DMSO(1mg/ml).

Store Temp -20° C

Ship Temp Ambient

Description Fidaxomicin is a macrocyclic antibiotic, isolated from actinomycete *Dactylosporangium aurantiacum*. Fidaxomicin is an RNA polymerase inhibitor that has a narrow antibiotic activity spectrum and is not readily absorbed into the blood circulatory system. This anti-bacterial agent is almost *Clostridium difficile* specific in the colon, and has minimal effect to the intestinal microbial flora.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
F285081	25 mg	\$77.80
F285081	100 mg	\$220.60
F285081	250 mg	\$473.80

References Poxton IR. Fidaxomicin: a new macrocyclic, RNA polymerase-inhibiting antibiotic for the treatment of *Clostridium difficile* infections. *Future Microbiol.* 2010 ;5(4):539-48 doi: 10.2217/fmb.10.20.PMID: 20353295 Review.

Yuan J, Yu J, Huang Y, et al. Antibiotic fidaxomicin is an RdRp inhibitor as a potential new therapeutic agent against Zika virus. *BMC Med.* 2020 Jul 31;18(1):204. PMID: 32731873.

Koon H, Wang J, Mussatto, C, et al. Fidaxomicin and OP-1118 inhibit *Clostridium difficile* toxin A- and B- mediated inflammatory responses via inhibition of NF-κB activity. *Antimicrob Agents Chemother.* 2017 Dec 21;62(1):e01513-17. PMID: 29038278.

Dallier D, Dorst A, Schafle D, et al. Novel fidaxomicin antibiotics through site-selective catalysis. *Communications Chemistry.* 2021. 4:59.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.