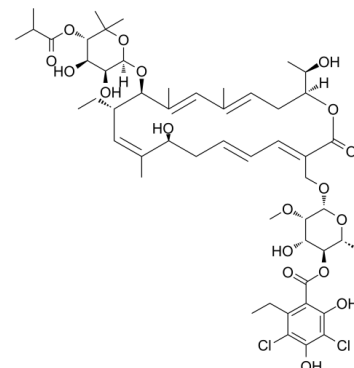


Data Sheet

Product Name:	Fidaxomicin
Cat. No.:	CS-3249
CAS No.:	873857-62-6
Molecular Formula:	C ₅₂ H ₇₄ Cl ₂ O ₁₈
Molecular Weight:	1058.04
Target:	Apoptosis; Bacterial
Pathway:	Anti-infection; Apoptosis
Solubility:	DMSO : ≥ 33 mg/mL (31.19 mM)



BIOLOGICAL ACTIVITY:

Fidaxomicin (OPT-80), a macrocyclic **RNA polymerase** inhibitor, has a narrow spectrum of activity. Fidaxomicin selectively eradicates pathogenic *Clostridium difficile* with minimal disruption to the multiple species of bacteria that make up the normal, healthy intestinal flora^[1].

References:

[1]. Poxton IR, et al. Fidaxomicin: a new macrocyclic, RNA polymerase-inhibiting antibiotic for the treatment of *Clostridium difficile* infections. *Future Microbiol.* 2010 Apr;5(4):539-48.

CAIndexNames:

Oxacyclooctadeca-3,5,9,13,15-pentaen-2-one, 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-, (3E,5E,8S,9E,11S,12R,13E,15E,18S)-

SMILES:

O=C(C(C(O)=C(Cl)C(O)=C1CC)O[C@H]([C@H](O[C@H]2OC/C(C(O[C@H](C/C=C3C)([H])[C@H](O)C)=O)=C\C=C\C[C@H](/C(C)=C[C@H](CC)[C@@H](O[C@H](OC(C)C)[C@H](OC(C(C)C)=O)[C@@H]4O)([H])[C@H]4O)\C(C)=C/3)O)C)[C@@H]([C@H]2OC)O

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

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