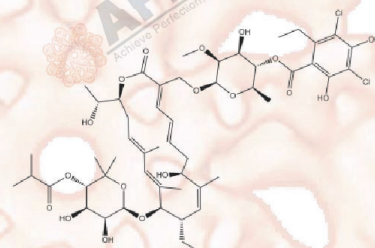


Product Data Sheet

Fidaxomicin

Cat. No.:	B1755
CAS No.:	873857-62-6
Formula:	C ₅₂ H ₇₄ Cl ₂ O ₁₈
M.Wt:	1058.04
Synonyms:	
Target:	
Pathway:	
Storage:	Store at -20°C



Solvent & Solubility

≥35.27 mg/mL in DMSO; insoluble in H₂O; ≥12.25 mg/mL in EtOH

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	1 mM	0.9451 mL	4.7257 mL	9.4514 mL
	5 mM	0.1890 mL	0.9451 mL	1.8903 mL
	10 mM	0.0945 mL	0.4726 mL	0.9451 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary

macrocyclic antibiotic

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line: Human colonic fibroblasts

Preparation method: The solubility of this compound in DMSO is >10 mM. General tips for obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Reacting conditions: 20 μM for 6 h;

	Applications:	Fidaxomicin (20 μ M) prevented toxin A-induced cell rounding in human colonic CCD-18Co fibroblasts [1]. Moreover, Fidaxomicin suppressed toxin production in Clostridium difficile [2].
In Vivo	Animal experiment	
	Animal models:	Male C57BL/6 mice model
	Dosage form:	5 to 20 μ M
	Applications:	Treatment with fidaxomicin (20 μ M) significantly inhibited toxin A-mediated histologic damage and reduced the mean histology score and ileal IL-1 β protein and mRNA expression in the mouse ileum [1].
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

1. AbdelKhalek A, Abutaleb NS, et al. "Antibacterial and antivirulence activities of auranofin against Clostridium difficile." Int J Antimicrob Agents. 2019 Jan;53(1):54-62.PMID:30273668

See more customer validations on www.apexbt.com.

References

1. Koon, H. W., Ho, S., Hing, T. C., Cheng, M., Chen, X., Ichikawa, Y., Kelly, C. P. and Pothoulakis, C. (2014) Fidaxomicin inhibits Clostridium difficile toxin A-mediated enteritis in the mouse ileum. Antimicrob Agents Chemother. 58, 4642-4650
2. Babakhani, F., Bouillaut, L., Sears, P., Sims, C., Gomez, A. and Sonenshein, A. L. (2013) Fidaxomicin inhibits toxin production in Clostridium difficile. J Antimicrob Chemother. 68, 515-522

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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