



Rifaximin (Xifaxan) Catalog No. A10793

Quick Overview

Rifaximin is a semisynthetic, rifamycin-based non-systemic antibiotic, meaning that very little of the drug will pass the gastrointestinal wall into the circulation as is common for other types of orally administered antibiotics.

Products are for laboratory research use only. Not for human use. We do not sell to patients.

Product Information

Catalog Num	A10793
M. Wt	785.88
Formula	C ₄₃ H ₅₁ N ₃ O ₁₁
Solubility	DMSO
Purity	>98%
Storage	at -20°C 3 years Powder
CAS No.	80621-81-4
Synonyms	N/A
Chemical Name	2S-Acetyloxy-5,6,21,23-tetrahydroxy-27-methoxy-2,4,11, 16,20,22,24,26-octamethyl-2,7-(epoxypentoeleca(1,11,13)trienimino)benzofuro[4,5-e]pyride[1,2-a]benzimidazole-1,15(2H)-dione
SMILES Code	<chem>C[C@H]1C=C/C=C(\C(=O)NC2=C(C3=C(C4=C(C=C3O)O)[C@@](C4=O)(O/C=C/[C@@H]([C@H]([C@H]([C@@H]([C@@H]([C@@H]([C@H]1O)C)O)C)OC(=O)C)OC)C)C5=C2N6C=CC(=CC6=N5)C)O)C</chem>

Biological activity

Introduction	Rifaximin is a semisynthetic, rifamycin-based non-systemic antibiotic, meaning that very little of the drug will pass the gastrointestinal wall into the circulation as is common for other types of orally administered antibiotics.				
Targets	RNA polymerase				

Solubility

Solubility (25C)*	In vitro	DMSO	47 mg/mL (59.8 mM)
		Water	<1 mg/mL (<1 mM)
		Ethanol	3 mg/mL (3.81 mM)
<p>* <1 mg/ml means slightly soluble or insoluble. * Please note that AdooQ tests the solubility of all compounds in-house, and the actual solubility may differ slightly from published values. This is normal and is due to slight batch-to-batch variations.</p>			

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