

Product Name: PF 945863

Catalog No.: 4419

Batch No.: 1

CAS Number: 893556-85-9

IUPAC Name: (3a*S*,4*R*,7*R*,9*R*,10*R*,11*R*,13*R*,15*R*,15a*R*)-4-Ethyl-octahydro-11-methoxy-3a,7,9,11,13,15-hexamethyl-1-[1-[(1*R*)-1-(1,8-naphthyridin-4-yl)ethyl]-3-azetidiny]-10-[[[3,4,6-trideoxy-3-(dimethylamino)-β-D-xylohexopyranosyl]oxy]-2*H*-oxacyclotetradecino[4,3-*d*]oxazole-2,6,8,14(1*H*,7*H*,9*H*)tetrone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄₄H₆₅N₅O₁₀·2¾H₂O

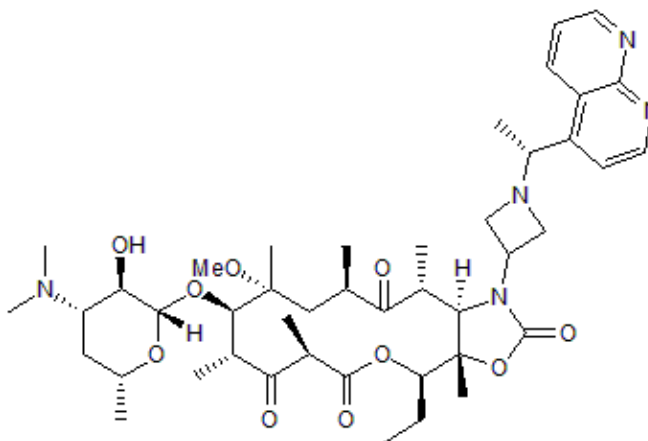
Batch Molecular Weight: 873.55

Physical Appearance: Beige solid

Solubility: DMSO to 100 mM
ethanol to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60.5	8.13	8.02
Found	60.32	7.9	8

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Macrolide antibiotic. Active against multidrug resistant respiratory tract bacterial strains. Does not have the hepatotoxic side effects associated with telithromycin. Orally active.

Physical and Chemical Properties:

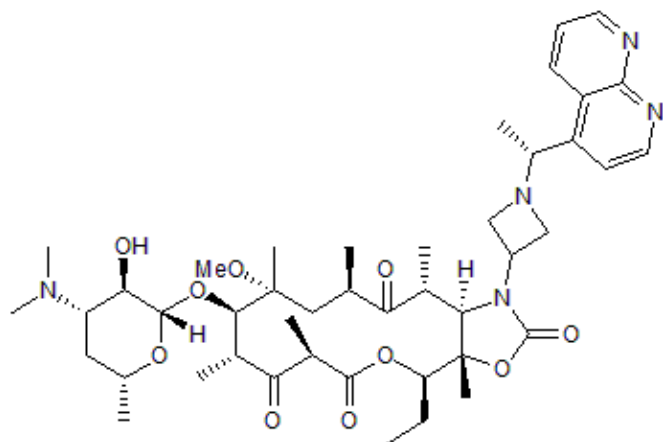
Batch Molecular Formula: C₄₄H₆₅N₅O₁₀·2¾H₂O

Batch Molecular Weight: 873.55

Physical Appearance: Beige solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Magee et al (2009) Discovery of azetidiny ketolides for the treatment of susceptible and multidrug resistant community-acquired respiratory tract infections. *J.Med.Chem.* **52** 7446. PMID: 19775168.

Zientek et al (2010) *In vitro-in vivo* correlation for intrinsic clearance for drugs metabolized by human aldehyde oxidase. *Drug Metab.Dispos.* **38** 1322. PMID: 20444863.

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