

Product Name: Trovafloxacin mesylate

Catalog No.: 3863

Batch No.: 1

CAS Number: 147059-75-4

IUPAC Name: 7-[(1 α ,5 α ,6 α)-6-Amino-3-azabicyclo[3.1.0]hex-3-yl]-1-(2,4-difluorophenyl)-6-fluoro-1,4-dihydro-4-oxo-1,8-naphthyridine-3-carboxylic acid mesylate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₁₅F₃N₄O₃.CH₃SO₃H

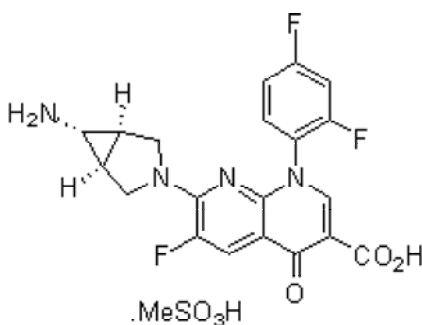
Batch Molecular Weight: 512.46

Physical Appearance: White solid

Solubility: water to 50 mM
DMSO to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	49.22	3.74	10.93
Found	49.25	3.77	10.95

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Description:

Trovafloxacin mesylate is a fluoroquinolone antibiotic. Inhibits bacterial DNA topoisomerase IV and DNA gyrase and forms a stable quinolone-DNA complex with these enzymes which reversibly inhibits DNA synthesis. Displays potent activity against gram-positive and gram-negative bacteria. Increases the production of mitochondrial NO in immortalized hepatocytes; also increases mitochondrial Ca²⁺. Inhibits Panx-1 (IC₅₀ ~ 4 μ M).

Physical and Chemical Properties:

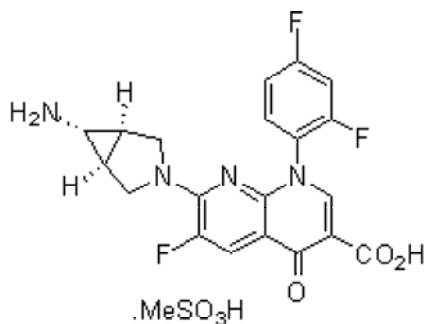
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Batch Molecular Weight: 512.46

Physical Appearance: White solid

Minimum Purity: \geq 99%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 50 mM

DMSO 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.

Licensing Information:

Sold for research purposes under agreement from Pfizer Inc.

References:

Poon et al (2014) Unexpected link between an antibiotic, pannexin channels and apoptosis. *Nature* **507** 329. PMID: 24646995.

Gootz et al (1996) Activity of the new fluoroquinolone trovafloxacin (CP-99,219) against DNA gyrase and topoisomerase IV mutants of *Streptococcus pneumoniae* selected in vitro. *Antimicrob.Agents Chemother.* **40** 2691. PMID: 9124824.

Neu and Chin (1994) In vitro activity of the new fluoroquinolone CP-99,219. *Antimicrob.Agents Chemother.* **38** 2615. PMID: 7872757.

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