Chemical Properties

Product Name: Moxifloxacin
Cas No.: 151096-09-2
M.Wt.: 401.43
Formula: C21H24FN3O4

Chemical Name: 7-[(4aS,7aS)-1,2,3,4,4a,5,7,7a-octahydropyrrolo[3,4-b]pyridin-6-yl]-1-cyclopropyl-6-fluoro-8-methoxy-4-oxoquinoline-3-carboxylic acid

Canonical SMILES: COC1=C2(C(=CC(=C1N3CC4CCCNC4C3)F)C(=O)C(=CN2C5CC5)C(=O)O

Solubility: Soluble in DMSO

Storage: Store at -20°C

General tips: For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shopping Condition: Evaluation sample solution: ship with blue ice
All other available size: ship with RT, or blue ice upon request

Biological Activity

Targets: Microbiology & Virology
Pathways: Antibiotic

Description:
Moxifloxacin is an orally bio-available, broad spectrum bacterial gyrase-inhibiting fluoroquinolone antibiotic [1].
Moxifloxacin at 50 μg/mL has been reported to induce a significant reduction of viable cells. A remarkable anti-proliferative activity of moxifloxacin has been proved in the concentrations between 50 and 1500 μg/mL. Moreover, moxifloxacin could lead to signs of cellular damage which were seen like binucleation in a dose-dependent manner [2].
Rats intravenously injected with moxifloxacin at 100 mg/kg have shown the increase of Serum glucose and serum epinephrine concentrations as well as the release of histamine. However, moxifloxacin at 75 mg/kg did not show any effects on serum epinephrine, glucose or histamine concentrations increase [3].

Reference:

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.