

Product Data Sheet

Product Name: Difloxacin-d3

Cat. No.: GC47220

Chemical Properties

Cas. No. 1173147-93-7

SMILES OC(C1=CN(C2=CC=C(F)C=C2)C3=CC(N4CCN(C([2H])([2H])[2H])CC4)=C(F)C=C3C1=O)=O

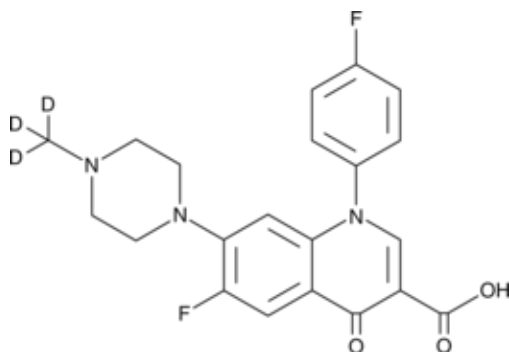
Formula C₂₁H₁₆D₃F₂N₃O₃ M.Wt 402.4

Solubility Chloroform: soluble, Ethanol: soluble Storage Store at -20°C

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

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

Structure



Background

Difloxacin-d₃ is intended for use as an internal standard for the quantification of difloxacin by GC- or LC-MS. Difloxacin is a fluoroquinolone antibiotic.¹ It is active against isolates of anaerobic bacteria, including *B. fragilis*, as well as *Fusobacterium* and *Actinomyces* species with MIC values ranging from ≤0.125 to 8 µg/ml. It eliminates *E. coli* and *B. fragilis* infection in a rat intra-abdominal abscess model when administered at a dose of 40 mg/kg three times per day.²

1. Bansal, M.B., and Thadepalli, H. Activity of difloxacin (A-56619) and A-56620 against clinical anaerobic bacteria in vitro. *Antimicrob. Agents Chemother.* 31(4):619-621 (1987) 2. Thadepalli, H.,

Caution: Product has not been fully validated for medical applications. For research use only.

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Gollapudi, S.V., and Chuah, S.K. Therapeutic evaluation of difloxacin (A-56619) and A-56620 for experimentally induced *Bacteroides fragilis*-associated intra-abdominal abscess. *Antimicrob. Agents Chemother.* 30(4):574-576 (1986)

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