
Product Data Sheet

Product Name: Levofloxacin-d8

Cat. No.: GC63320

Chemical Properties

Cas. No. 1217716-71-6

Formula $C_{18}H_{12}D_8FN_3O_4$ M.Wt 369.42

Solubility 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.

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

Structure

Background

Levofloxacin-d8 is intended for use as an internal standard for the quantification of levofloxacin by GC- or LC-MS. Levofloxacin is a fluoroquinolone antibiotic and the active stereoisomer of ofloxacin.¹ It is active against *S. aureus*, *S. epidermidis*, *B. subtilis*, *E. coli*, *P. aeruginosa*, and *K. pneumoniae* (MICs = 0.25, 0.25, 0.5, 0.03, 4, and 0.25 µg/ml, respectively).² Levofloxacin inhibits *S. aureus* DNA gyrase and topoisomerase IV (IC₅₀s = 8.06 and 9.81 µg/ml, respectively).³ It eliminates infection in rat models of endocarditis caused by methicillin-sensitive or -resistant *S. aureus*.⁴ Formulations containing levofloxacin have been used in the treatment of various bacterial infections.

1. Norrby, S.R. Levofloxacin Expert Opin. Pharmacother. 1(1)109-119(1999)

2. Mohammadhosseini, N., Alipanahi, Z., Alipour, E., et al. Synthesis and antibacterial activity of novel levofloxacin derivatives containing a substituted thienylethyl moiety. Daru. 20(1)(2012) 3. Takei, M., Fukuda, H., Kishii, R., et al. Target preference of 15 quinolones against Staphylococcus aureus, based on antibacterial activities and target inhibition Antimicrob. Agents Chemother. 45(12)3544-3547(2001) 4. Entenza, J.M., Vouillamoz, J., Glauser, M.P., et al. Levofloxacin versus ciprofloxacin, flucloxacillin, or vancomycin for treatment of experimental endocarditis due to methicillin-susceptible or

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

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-resistant Staphylococcus aureus Antimicrob. Agents Chemother. 41(8):1662-1667 (1997)

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