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**Product Data Sheet**

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Product Name: Moxifloxacin-d4

Cat. No.: GC64291

**Chemical Properties**

Cas. No. 2596386-23-9

Formula C<sub>21</sub>H<sub>20</sub>D<sub>4</sub>FN<sub>3</sub>O<sub>4</sub>

M.Wt

405.46

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**

Moxifloxacin-d<sub>4</sub> is intended for use as an internal standard for the quantification of moxifloxacin by GC- or LC-MS. Moxifloxacin is a fluoroquinolone antibiotic that is active through multiple routes of administration.<sup>1</sup> Formulations containing moxifloxacin have been used to treat bacterial infections associated with bronchitis, sinusitis, and other conditions.<sup>2,3,4</sup>

1. Takiff, H., and Guerrero, E. Current prospects for the fluoroquinolones as first-line tuberculosis therapy. *Antimicrob. Agents and Chemother.* 55(12):5421-5429 (2011)

2. Dryden, M.S. Complicated skin and soft tissue infection. *Antimicrob. Chemother.* 65(Suppl 3):iii35-iii44 (2010)

3. Karageorgopoulos, D.E., Giannopoulou, K.P., Grammatikos, A.P., et al. Fluoroquinolones compared with  $\beta$ -lactam antibiotics for the treatment of acute bacterial sinusitis: A meta-analysis of randomized controlled trials. *Canad. Med. Assoc. J.* 178(7):845-854 (2008)

4. Miravittles, M. Moxifloxacin in the management of exacerbations of chronic bronchitis and COPD. *Int. J. Chron. Obstruct. Pulmon. Dis.* 2(3):191-204 (2007)

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

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