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## Product Data Sheet

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Product Name: Danofloxacin-d3

Cat. No.: GC68402

### Chemical Properties

Cas. No. 1825377-28-3

Formula  $C_{19}H_{17}D_3FN_3O_3$  M.Wt 360.4

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

Danofloxacin-d3 is deuterium labeled Danofloxacin. Danofloxacin is a third generation fluoroquinolone and orally active antimicrobial agent. Danofloxacin shows a broad spectrum of activity against most **Gram-negative** and **Gram-positive bacteria**, **mycoplasma** and **chlamydia species**, and plays an antimicrobial role by inhibition of **bacterial DNA-gyrase**<sup>[1][2]</sup>.

[1]. Erjie Tian, et al. Population Pharmacokinetics for Danofloxacin in the Intestinal Contents of Healthy and Infected Chickens. J Vet Pharmacol Ther. 2019 Sep;42(5):556-563.

[2]. Xia Xiao, et al. Comparative Pharmacokinetics of Danofloxacin in Healthy and Pasteurella Multocida Infected Ducks. J Vet Pharmacol Ther. 2018 Dec;41(6):912-918.

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

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