
Product Data Sheet

Product Name: Ozenoxacin-d3 hydrochloride

Cat. No.: GC67762

Chemical Properties

Cas. No.

Formula $C_{21}H_{19}D_3ClN_3O_3$

M.Wt

402.89

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

Ozenoxacin-d3 hydrochloride is the deuterium labeled Ozenoxacin hydrochloride. Ozenoxacin hydrochloride is a nonfluorinated quinolone antibacterial, which shows potent activities against the main microorganisms isolated from skin and soft tissue infections^{[1][2][3]}.

Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs^[3].

[1]. Ji X, et al. Potential hepatic toxicity of buprofezin at sublethal concentrations: ROS-mediated conversion of energy metabolism. *J Hazard Mater.* 2016 Dec 15;320:176-186.

[2]. Yoshiolzawa, et al. Inhibition of chitin biosynthesis by buprofezin analogs in relation to their activity controlling *Nilaparvata lugens* Stål. *Pestic Biochem Physiol*, 1985, 24(3): 343-347.

[3]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-223.

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

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