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Produktinformation



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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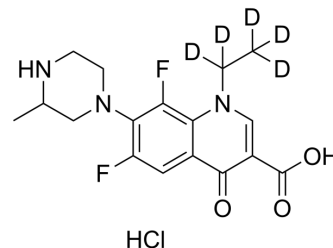
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Lomefloxacin-d₅ hydrochloride

Cat. No.:	HY-B0455S
Molecular Formula:	C ₁₇ H ₁₅ D ₅ ClF ₂ N ₃ O ₃
Molecular Weight:	392.84
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H₂O : 7.14 mg/mL (18.18 mM; ultrasonic and warming and heat to 60°C)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.5456 mL	12.7278 mL	25.4557 mL
	5 mM		0.5091 mL	2.5456 mL	5.0911 mL
	10 mM		0.2546 mL	1.2728 mL	2.5456 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Lomefloxacin-d₅ (hydrochloride) is the deuterium labeled Lomefloxacin hydrochloride. Lomefloxacin (SC47111A) hydrochloride is a broad-spectrum quinolone antibiotic, with antimicrobial activity. Lomefloxacin hydrochloride is used for the research of respiratory tract infections, genitourinary infections, gastrointestinal infections, ENT infections, etc.[1][2].

In Vitro

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].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Hoogkamp-Korstanje JA. In-vitro activities of ciprofloxacin, levofloxacin, lomefloxacin, ofloxacin, pefloxacin, sparfloxacin and trovafloxacin against gram-positive and gram-negative pathogens from respiratory tract infections. J Antimicrob Chemother. 1997 Sep;40(3):427-31.
- [2]. Reem I Al-Wabli. Lomefloxacin. Profiles Drug Subst Excip Relat Methodol. 2017;42:193-240.

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

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