

Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic in



PRODUCT INFORMATION

D



Enrofloxacin-d₅

Item No. 33809

CAS Registry No.: 1173021-92-5

Formal Name: 1-cyclopropyl-7-[4-(ethyl-1,1,2,2,2-d₅)-

1-piperazinyl]-6-fluoro-1,4-dihydro-4-

oxo-3-quinolinecarboxylic acid

Synonyms: BAY-Vp 2674-d₅, ENR-d₅

MF: $C_{19}H_{17}D_5FN_3O_3$

FW: 364.4

Chemical Purity: ≥98% (Enrofloxacin)

Deuterium

Incorporation: ≥99% deuterated forms (d_1-d_5) ; ≤1% d_0

UV/Vis.: λ_{max} : 284 nm A solid Supplied as: -20°C Storage: Stability: ≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Enrofloxacin- d_5 is intended for use as an internal standard for the quantification of enrofloxacin (Item No. 20301) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated versus unlabeled).

Enrofloxacin- d_5 is supplied as a solid. A stock solution may be made by dissolving the enrofloxacin- d_5 in the solvent of choice, which should be purged with an inert gas. Enrofloxacin- d_5 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of enrofloxacin-d₅ in these solvents is approximately 1 and 10 mg/ml, respectively.

Description

Enrofloxacin is a fluoroquinolone antibiotic. 1 It is active against panels of Campylobacter, E. coli, and Salmonella isolates (mean MIC₅₀s = 0.06, 0.5, and 0.03 μ g/ml, respectively). It is also active against equine isolates of L. intracellularis (MICs = 0.125-0.5 µg/ml).² Enrofloxacin inhibits bacterial DNA gyrase.³ In vivo, enrofloxacin (10 mg/kg) increases survival in a mouse model of enteropathogenic E. coli-induced sepsis. Formulations containing enrofloxacin have been used in the treatment of veterinary bacterial infections.

References

- 1. Randall, L., Ridley, A., Lemma, F., et al. In vitro investigations into the use of antimicrobials in combination to maintain efficacy of fluoroquinolones in poultry. Res. Vet. Sci. 108, 47-53 (2016).
- 2. Pereira, C.E.R., Resende, T.P., Vasquez, E., et al. In vitro antimicrobial activity against equine Lawsonia intracellularis strains. Equine Vet. J. 51(5), 665-668 (2019).
- 3. Slate, A.R., Bandyopadhyay, S., Francis, K.P., et al. Efficacy of enrofloxacin in a mouse model of sepsis. J. Am. Assoc. Lab. Anim. Sci. 53(4), 381-386 (2014).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD ANN ARBOR, MI 48108 · USA PHONE: [800] 364-9897

[734] 971-3335

FAX: [734] 971-3640 CUSTSERV@CAYMANCHEM.COM WWW.**CAYMANCHEM**.COM