

Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

Weitere Information auf den folgenden Seiten! See the following pages for more information!



Lieferung & Zahlungsart siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien T. +43(0)1 489 3961-0 F. +43(0)1 489 3961-7 <u>mail@szabo-scandic.com</u> www.szabo-scandic.com

PRODUCT INFORMATION



Enrofloxacin

Item No. 20301

CAS Registry No.:	93106-60-6		
Formal Name:	1-cyclopropyl-7-(4-ethyl-1-piperazinyl)-		
	6-fluoro-1,4-dihydro-4-oxo-3- quinolinecarboxylic acid	N	\bigtriangledown
Synonyms:	BAY-Vp 2674, ENR, PD 160788		 N
MF:	$C_{19}H_{22}FN_3O_3$		
FW:	359.4		
Purity:	≥98%		ОН
UV/Vis.:	λ _{max} : 280, 318 nm	F ~	ПП
Supplied as:	A crystalline solid		0 0
Storage:	Room temperature		
Stability:	≥2 years		
Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.			

Laboratory Procedures

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

Enrofloxacin is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, enrofloxacin should first be dissolved in DMF and then diluted with the aqueous buffer of choice. Enrofloxacin has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

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.

SAFFTY DATA

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.

WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 04/23/2021

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