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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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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

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

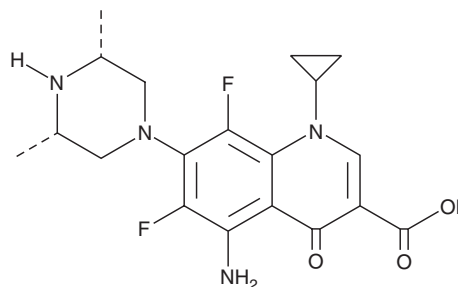
PRODUCT INFORMATION



Sparfloxacin

Item No. 20379

CAS Registry No.: 110871-86-8
Formal Name: *rel*-5-amino-1-cyclopropyl-7-[(3*R*,5*S*)-3,5-dimethyl-1-piperazinyl]-6,8-difluoro-1,4-dihydro-4-oxo-3-quinolinecarboxylic acid
Synonyms: AT-4140, CI-978, CP 103,826, PD1315-1, PD 131501
MF: C₁₉H₂₂F₂N₄O₃
FW: 392.4
Purity: ≥95%
UV/Vis.: λ_{max}: 223, 302, 375 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

Sparfloxacin is supplied as a crystalline solid. A stock solution may be made by dissolving the sparfloxacin in the solvent of choice. Sparfloxacin is soluble in dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of sparfloxacin in DMF is approximately 10 mg/ml.

Sparfloxacin is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, sparfloxacin should first be dissolved in DMF and then diluted with the aqueous buffer of choice. Sparfloxacin has a solubility of approximately 0.50 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

Sparfloxacin is a fluoroquinolone antibiotic that inhibits bacterial DNA gyrase, thereby inhibiting DNA replication and transcription.¹ It is active against *S. aureus* with an MIC value of 0.031 µg/ml.¹

Reference

1. Takei, M., Fukuda, H., Kishii, R., *et al.* Target preference of 15 quinolones against *Staphylococcus aureus*, based on antibacterial activities and target inhibition. *Antimicrob. Agents Chemother.* **45**(12), 3544-3547 (2001).

WARNING

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

SAFETY 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.

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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