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siehe unsere Liefer- und Versandbedingungen

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- Mindermengenzuschlag
- Trockeneiszuschlag
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- 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

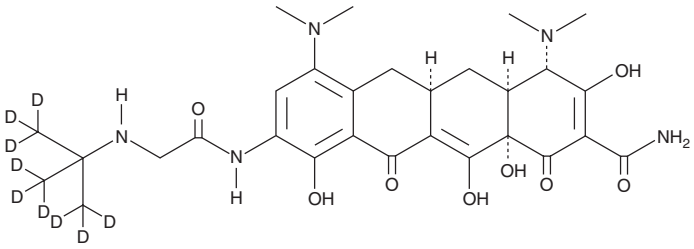
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

Tigecycline-d_9

Item No. 25414

CAS Registry No.: 2699607-86-6
Formal Name: 4,7-*bis*(dimethylamino)-3,10,12,12a-tetrahydroxy-9-(2-((2-(methyl-d_3)propan-2-yl-1,1,1,3,3,3-d_6)amino)acetamido)-1,11-dioxo-1,4S,4aS,5,5aR,6,11,12aS-octahydrotetracene-2-carboxamide
MF: $C_{29}H_{30}D_9N_5O_8$
FW: 594.7
Chemical Purity: ≥95% (Tigecycline)
Deuterium Incorporation: ≥99% deuterated forms (d_1-d_9); ≤1% d_0
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



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

Laboratory Procedures

Tigecycline-d_9 is intended for use as an internal standard for the quantification of tigecycline (Item No. 15026) 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).

Tigecycline-d_9 is supplied as a solid. A stock solution may be made by dissolving the tigecycline-d_9 in the solvent of choice, which should be purged with an inert gas. Tigecycline-d_9 is slightly soluble in methanol and DMSO.

Description

Tigecycline is a broad-spectrum glycylcycline antibiotic that binds to the bacterial 30S ribosome, blocking the entry of transfer RNA, which halts protein synthesis and inhibits bacterial growth.[1] It is active against a panel of 1,924 European clinical bacterial isolates including *S. aureus*, *S. epidermidis*, *S. pneumoniae*, *E. faecalis*, *E. faecium*, *E. coli*, *K. pneumoniae*, *P. aeruginosa*, and *P. mirabilis* strains (MICs = <1-32 µg/ml).[2] *In vivo*, tigecycline (6.25 mg/kg twice daily for 5 days) decreases levels of *C. difficile* cytotoxin activity and spore formation in cecum and colon in a mouse model of *C. difficile* infection.[3] Formulations containing tigecycline have been used in the treatment of a variety of bacterial infections.

References

1. Greer, N.D. Tigecycline (Tygacil): The first in the glycylcycline class of antibiotics. *Proc. (Bayl. Univ. Med. Cent.)* **19(2)**, 155-161 (2006).
2. Milatovic, D., Schmitz, F.J., Verhoef, J., *et al.* Activities of the glycylcycline tigecycline (GAR-936) against 1,924 recent European clinical bacterial isolates. *Antimicrob. Agents Chemother.* **47(1)**, 400-404 (2003).
3. Theriot, C.M., Schumacher, C.A., Bassis, C.M., *et al.* Effects of tigecycline and vancomycin administration on established *Clostridium difficile* infection. *Antimicrob. Agents Chemother.* **59(3)**, 1596-1604 (2015).

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