

Product Data Sheet

Product Name: Tigecycline-d9

Cat. No.: GC40240

Chemical Properties

Cas. No. 2699607-86-6

Formula C₂₉H₃₀D₉N₅O₈

M.Wt 594.7

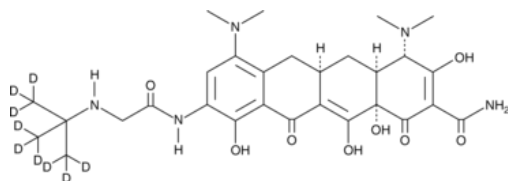
Solubility DMSO: Slightly Soluble, Methanol: Slightly Soluble, Water: Slightly Soluble

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Tigecycline-d9 is intended for use as an internal standard for the quantification of tigecycline by GC- or LC-MS. 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. 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 = 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. Formulations containing tigecycline have been used in the treatment of a variety of bacterial infections.

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

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