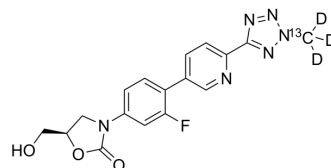


Tedizolid-¹³C,₃D₃

Cat. No.:	HY-14855S
Molecular Formula:	C ₁₆ ¹³ CH ₁₂ D ₃ FN ₆ O ₃
Molecular Weight:	374.35
Target:	Bacterial; Antibiotic; Isotope-Labeled Compounds
Pathway:	Anti-infection; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Tedizolid- ¹³ C, ₃ D ₃ is the ¹³ C- and deuterium labeled Tedizolid. Tedizolid (TR 700; Torezolid; DA-7157) is a novel oxazolidinone, acting through inhibition of bacterial protein synthesis by binding to 23S ribosomal RNA (rRNA) of the 50S subunit of the ribosome.
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs ^[54] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-223.
- [2]. Choi S, et al. Activity of Tedizolid Phosphate (TR-701) in Murine Models of Infection with Penicillin-resistant and Penicillin-sensitive *Streptococcus pneumoniae*. *Antimicrob Agents Chemother.* 2012 Jun 19.

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

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