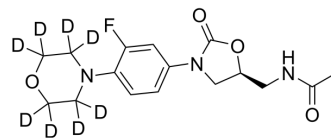


PNU-100766-d8

Cat. No.:	HY-10394S1
CAS No.:	1032182-14-1
Molecular Formula:	C ₁₆ H ₁₂ D ₈ FN ₃ O ₄
Molecular Weight:	345.4
Target:	Antibiotic; Bacterial; Isotope-Labeled Compounds
Pathway:	Anti-infection; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PNU-100766-d ₈ is deuterated labeled Linezolid (HY-10394). Linezolid (PNU-100766) is the first member of the class of oxazolidinone synthetic antibiotic. Linezolid acts by inhibiting the initiation of bacterial protein synthesis. Linezolid is used for the treatment of serious infections caused by Gram-positive bacteria that are resistant to several other antibiotics ^{[1][2][3]} .
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 ^[1] . Linezolid (PNU-100766) prevents the synthesis of bacterial protein via binding to rRNA on both the 30S and 50S ribosomal subunits ^[4] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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

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