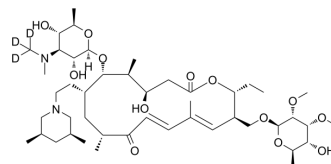


Tilmicosin-d3

Cat. No.:	HY-B0905S
Molecular Formula:	C ₄₆ H ₇₇ D ₃ N ₂ O ₁₃
Molecular Weight:	872.15
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Tilmicosin-d3 (LY-177370-d3) is the deuterium labeled Tilmicosin. Tilmicosin is a macrolide antibiotic, is used for the research of bovine respiratory disease and ovine respiratory disease associated with <i>Mannheimia</i> (<i>Pasteurella</i>) <i>haemolytica</i> .
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] . 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):211-216.
- [2]. Micotil 300 New Animal Drug Application

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

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