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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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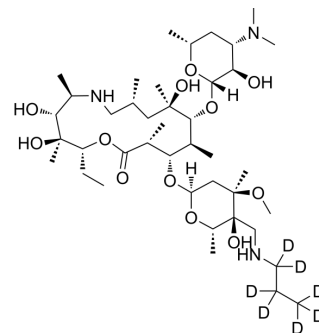
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Tulathromycin A-d₇

Cat. No.:	HY-15662S
Molecular Formula:	C ₄₁ H ₇₂ D ₇ N ₃ O ₁₂
Molecular Weight:	813.12
Target:	Isotope-Labeled Compounds; Bacterial; Antibiotic
Pathway:	Others; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Tulathromycin A-d₇ (Tulathromycin-d₇) is deuterium labeled Tulathromycin A. Tulathromycin A (Tulathromycin), a macrolide antibiotic, inhibits protein synthesis (IC₅₀=0.26 μM) by targeting bacterial ribosome. Tulathromycin A is used for the research of respiratory disease in cattle and swine. Immunomodulatory effects^{[1][2][3][4]}.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Villarino N, et al. Pharmacokinetics of tulathromycin in healthy and neutropenic mice challenged intranasally with lipopolysaccharide from *Escherichia coli*. *Antimicrob Agents Chemother*. 2012;56(8):4078-4086.
- [3]. Andersen NM, et al. Inhibition of protein synthesis on the ribosome by tildipirosin compared with other veterinary macrolides. *Antimicrob Agents Chemother*. 2012;56(11):6033-6036.
- [4]. Duquette SC, et al. Immunomodulatory effects of tulathromycin on apoptosis, efferocytosis, and proinflammatory leukotriene B₄ production in leukocytes from *Actinobacillus pleuropneumoniae*-or zymosan-challenged pigs. *Am J Vet Res*. 2015;76(6):507-519.

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

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