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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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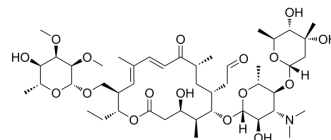
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Tylosin (Standard)

Cat. No.:	HY-B0519AR
CAS No.:	1401-69-0
Molecular Formula:	C ₄₆ H ₇₇ NO ₁₇
Molecular Weight:	916.1
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Tylosin (Standard) is the analytical standard of Tylosin. This product is intended for research and analytical applications. Tylosin (Tylosin A) is a macrolide antibiotic found naturally as a fermentation product of <i>Streptomyces fradiae</i> . Tylosin exerts potent antimicrobial activity against Gram-positive bacteria. Tylosin is widely used as a feed additive for promoting animal growth. Tylosin is used for veterinary purposes against bacterial dysentery and respiratory diseases in poultry, pigs and cattle ^{[1][2][3]} .
IC₅₀ & Target	Antibiotic ^[1]

REFERENCES

- [1]. Mingfu Liu, et al. Resistance to the macrolide antibiotic tylosin is conferred by single methylations at 23S rRNA nucleotides G748 and A2058 acting in synergy. *Proc Natl Acad Sci U S A*. 2002 Nov 12; 99(23): 14658-14663.
- [2]. Carlo Pinna, et al. In Vitro Evaluation of the Effects of Tylosin on the Composition and Metabolism of Canine Fecal Microbiota. *Animals (Basel)*. 2020 Jan; 10(1): 98.
- [3]. Niels Møller Andersen, et al. Inhibition of Protein Synthesis on the Ribosome by Tildipirosin Compared with Other Veterinary Macrolides. *Antimicrob Agents Chemother*. 2012 Nov; 56(11): 6033-6036.
- [4]. Ayse Er, et al. Effects of tylosin on serum cytokine levels in healthy and lipopolysaccharide-treated mice. *Acta Vet Hung*. 2010 Mar;58(1):75-81.

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

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