

Product Data Sheet

Product Name: Tylosin tartrate

Cat. No.: GC13731

Chemical Properties

Cas. No. 74610-55-2

SMILES CCC1C(C=C(C=CC(=O)C(CC(C(C(C(CC(=O)O1)O)C)OC2C(C(C(C(O2)C)OC3CC(C(C(O3)C)O)(C)O)N(C)C)O)CC=O)C)C)COC4C(C(C(C(O4)C)O)OC)OC.C(C(C(C(=O)O)O)(C(=O)O)O

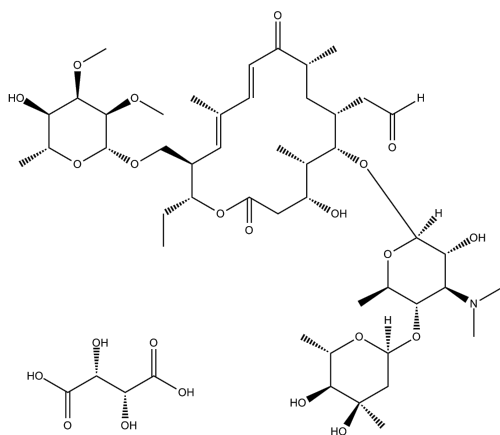
Formula $C_{46}H_{77}NO_{17} \cdot C_4H_6O_6$ M.Wt 1066.19

Solubility $\geq 36.85\text{mg/mL}$ in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

Tylosin tartrate is an antibiotic with a large macrocyclic lactone ring. Target: Antibacterial Tylosin tartrate is a bacteriostat food additive used in veterinary medicine. It has a broad spectrum of activity against gram-positive organisms and a limited range of gram-negative organisms. There is no significant evidence that tylosin resistant staphylococci of animal origin have endangered human health. Tylosin tartrate is not effective against the gram-negative intestinal flora, which thus does not lead to selection of R-factors by conjugation. From the human medical stand point, there is no reason

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

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that precludes the use of tylosin as a feed additive in animal feeds [1]. Minimum inhibitory concentrations for tylosin tartrate and other commonly used antibiotics were determined for 103 isolates. Most (82.61%) of the isolates not exposed to antibiotics in the 3 months before submission were sensitive to tylosin tartrate. These findings suggest that tylosin tartrate warrants further study as a first-line option for the treatment of dogs initially presenting with pyoderma [2].

References:

- [1]. Knothe, H., A review of the medical considerations of the use of tylosin and other macrolide antibiotics as additives in animal feeds. *Infection*, 1977. 5(3): p. 183-7.
- [2]. Scott, B.A., et al., Efficacy of tylosin tartrate on canine *Staphylococcus intermedius* isolates in vitro. *Vet Ther*, 2010. 11(3): p. E1-7.

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