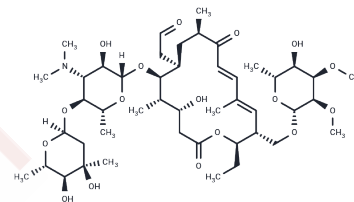


Tylosin

Chemical Properties

CAS No. :	1401-69-0
Formula:	C ₄₆ H ₇₇ N ₃ O ₁₇
Molecular Weight:	916.10
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Tylosin (Tylosine) is a macrolide antibiotic obtained from cultures of <i>Streptomyces fradiae</i> . The drug is effective against many microorganisms in animals but not in humans.
Targets(IC50)	Antibacterial, Antibiotic
In vivo	Tylosin and its phosphate and tartrate salts are used in pigs, cattle and poultry for the treatment of infections caused by organisms sensitive to tylosin. They may be administered to calves orally in the milk replacer at a dose of 40 mg/kg body weight (bw) and to cattle, by intramuscular injection, at a dose of 4-10 mg/kg bw. It may be administered in the drinking-water at a dose of 25 mg/kg bw, in the feed at a dose of 3-7 mg/kg bw or by intramuscular injection at a dose of 2-10 mg/kg bw. Tylosin is administered to poultry in the drinking-water at a dose equivalent to 75 mg/kg bw. It is used primarily in the treatment of chronic respiratory disease complex in chickens and infectious sinusitis in turkeys caused by <i>Mycoplasma gallisepticum</i> .

Solubility Information

Solubility	DMSO: 122.5 mg/mL (133.72 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (3.6 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.0916 mL	5.4579 mL	10.9158 mL
5 mM	0.2183 mL	1.0916 mL	2.1832 mL
10 mM	0.1092 mL	0.5458 mL	1.0916 mL
50 mM	0.0218 mL	0.1092 mL	0.2183 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Entorf M, et al. Tylosin susceptibility of staphylococci from bovine mastitis. *Vet Microbiol.* 2014 Jul 16;171(3-4):368-73.

Pilcher CM, et al. Impact of tylosin phosphate and distillers dried grains with solubles on energy and nutrient digestibility and flow through the gastrointestinal tract in growing pigs. *J Anim Sci.* 2013 Dec;91(12):5687-95.

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