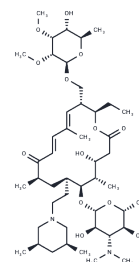


## Tilmicosin

## Chemical Properties

CAS No. :	108050-54-0
Formula:	C <sub>46</sub> H <sub>80</sub> N <sub>2</sub> O <sub>13</sub>
Molecular Weight:	869.13
Appearance:	no data available
Storage:	store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## Biological Description

Description	Tilmicosin (EL-870) is a macrolide antibiotic. It is used in veterinary medicine for the treatment of bovine respiratory disease and ovine respiratory disease associated with Mannheimia haemolytica.
Targets(IC50)	Antibacterial,Antibiotic
In vivo	After a subcutaneous injection, tilmicosin is eliminated more slowly from serum and milk, with t <sub>1/2</sub> beta S of 29.3 and 41.4 hours, respectively. The apparent volume of distribution of tilmicosin is more than 1 L/kg. The peak serum tilmicosin concentration is 1.56 µg/mL. 6.39 hours after a subcutaneous injection of 10 mg/kg. Tilmicosin is extensively secreted into milk, reaching a maximum concentration of 11.6 µg/mL and having a large AUC <sub>milk</sub> /AUC <sub>serum</sub> ratio of approximately 12:1. Tilmicosin is detectable in milk for 11 days after a single subcutaneous dose.[2]

## Solubility Information

Solubility	H <sub>2</sub> O: 8 mg/mL (9.2 mM),Sonication is recommended. DMSO: 55 mg/mL (63.28 mM),Sonication is recommended. Ethanol: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1506 mL	5.7529 mL	11.5058 mL
5 mM	0.2301 mL	1.1506 mL	2.3012 mL
10 mM	0.1151 mL	0.5753 mL	1.1506 mL
50 mM	0.023 mL	0.1151 mL	0.2301 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.

### Reference

Ose EE. et al. J Antibiot (Tokyo), 1987, 40(2), 190-194.

Ramadan A. Res Vet Sci, 1997, 62(1), 48-50.

Yazar E, et al. J Vet Med B Infect Dis Vet Public Health, 2002, 49(4), 209-210.

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