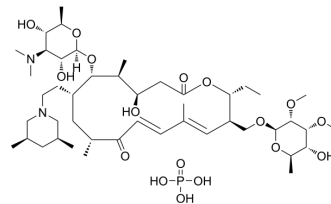


Tilmicosin phosphate

| | |
|---------------------------|--|
| Cat. No.: | HY-B0905A |
| CAS No.: | 137330-13-3 |
| Molecular Formula: | C ₄₆ H ₈₃ N ₂ O ₁₇ P |
| Molecular Weight: | 967.13 |
| Target: | Bacterial; Antibiotic |
| Pathway: | Anti-infection |
| Storage: | 4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture) |



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (103.40 mM)
 H₂O : ≥ 100 mg/mL (103.40 mM)
 * "≥" means soluble, but saturation unknown.

| Preparing Stock Solutions | Solvent Concentration | Mass | | |
|---------------------------|-----------------------|-----------|-----------|------------|
| | | 1 mg | 5 mg | 10 mg |
| | 1 mM | 1.0340 mL | 5.1699 mL | 10.3399 mL |
| | 5 mM | 0.2068 mL | 1.0340 mL | 2.0680 mL |
| | 10 mM | 0.1034 mL | 0.5170 mL | 1.0340 mL |

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: PBS
Solubility: 100 mg/mL (103.40 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (2.58 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (2.58 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (2.58 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Tilmicosin phosphate is a antibiotic, is used for the research of bovine respiratory disease and ovine respiratory disease associated with Mannheimia (Pasteurella) haemolytica.

CUSTOMER VALIDATION

- Microorganisms. 2024 Jan 25, 12(2), 256.
- Vet Microbiol. 2024 May, 292, 110046.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Galyean ML, et al. Effects of arrival medication with tilmicosin phosphate on health and performance of newly received beef cattle. J Anim Sci. 1995 May;73(5):1219-26.
- [2]. Fittipaldi N, et al. Assessment of the efficacy of tilmicosin phosphate to eliminate *Actinobacillus pleuropneumoniae* from carrier pigs. Can J Vet Res. 2005 Apr;69(2):146-50.
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Caution: Product has not been fully validated for medical applications. For research use only.

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