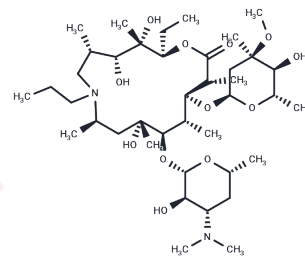


Gamithromycin

Chemical Properties

CAS No. :	145435-72-9
Formula:	C ₄₀ H ₇₆ N ₂ O ₁₂
Molecular Weight:	777.04
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	Gamithromycin (ML-1709460) is a macrolide compound with antibacterial activity.
Targets(IC50)	Antibacterial, Antibiotic

Solubility Information

Solubility	DMSO: 91 mg/mL (117.11 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 (4.25 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	1.2869 mL	6.4347 mL	12.8694 mL
5 mM	0.2574 mL	1.2869 mL	2.5739 mL
10 mM	0.1287 mL	0.6435 mL	1.2869 mL
50 mM	0.0257 mL	0.1287 mL	0.2574 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

Mahendran SA, et al. Randomised positive control trial of NSAID and antimicrobial treatment for calf fever caused by pneumonia. Vet Rec. 2017 Apr 21. pii: vetrec-2016-104057.

Lan J, Luo R, Liu D, et al. A novel high-throughput screen identifies phenazine-1-carboxylic acid as an inhibitor of African swine fever virus replication in primary porcine alveolar macrophages. Veterinary Research. 2025, 56: 37.

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