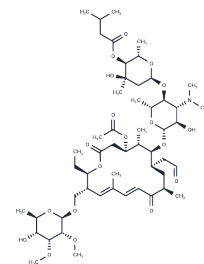


Tylvalosin

Chemical Properties

CAS No. :	63409-12-1
Formula:	C53H87NO19
Molecular Weight:	1042.25
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	Tylvalosin is a broad-spectrum macrolide antibiotic with both antibacterial and antiviral properties. Tylvalosin induces apoptosis, exerts anti-inflammatory effects, alleviates oxidative stress, and reduces acute lung injury by inhibiting the activation of NF-κB.
Targets(IC50)	Apoptosis,NF-κB,Antibacterial,Antibiotic
In vivo	Tylvalosin tartrate (160 mg/kg; po; 7 d) can alleviate the stress state of pigs during the immunization of PRRSV inactivated vaccine and improve their health.

Solubility Information

Solubility	DMSO: 100 mg/mL (95.95 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9595 mL	4.7973 mL	9.5946 mL
5 mM	0.1919 mL	0.9595 mL	1.9189 mL
10 mM	0.0959 mL	0.4797 mL	0.9595 mL
50 mM	0.0192 mL	0.0959 mL	0.1919 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

- Albert Philip Adrian Mockett, et al. Use of tylvalosin as antiviral agent. Patent. WO2008007104.
- Zhao Z, et al. Tylvalosin exhibits anti-inflammatory property and attenuates acute lung injury in different models possibly through suppression of NF- κ B activation. *Biochem Pharmacol.* 2014 Jul 1;90(1):73-87.
- Moges R, et al. Anti-Inflammatory Benefits of Antibiotics: Tylvalosin Induces Apoptosis of Porcine Neutrophils and Macrophages, Promotes Efferocytosis, and Inhibits Pro-Inflammatory CXCL-8, IL1 α , and LTB4 Production, While Inducing the Release of Pro-Resolving Lipoxin A4 and Resolvin D1. *Front Vet Sci.* 2018 Apr 11;5:57.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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