Data Sheet (Cat.No.T3117)

TargetMol

Marbofloxacin

Chemical Properties

CAS No. : 115550-35-1

Formula: C17H19FN4O4

Molecular Weight: 362.36

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	Marbofloxacin (Zeniquin) is an effective, broad-spectrum antibiotic of bacterial, which inhibits DNA replication.
Targets(IC50)	Antibacterial,Antibiotic,Topoisomerase
In vivo	Marbofloxacin treatment at the therapeutic dose does not eliminate M. hyopneumoniae, with 87.5 to 100% of the pigs still positive at the end of the assays, and is not effective in significantly reducing clinical signs. Nevertheless, Marbofloxacin treatment seems to decrease the lung lesion scores. [1] Administration of Marbofloxacin at 6 mg/kg once daily for 7 days in a Staphylococcus aureus infection in tissue cages in ponies is not effective for the elimination of S. aureus infections from secluded sites. [3]

Solubility Information

Solubility	DMSO: 2.18 mg/mL (6.02 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7597 mL	13.7984 mL	27.5969 mL
5 mM	0.5519 mL	2.7597 mL	5.5194 mL
10 mM	0.276 mL	1.3798 mL	2.7597 mL
50 mM	0.0552 mL	0.276 mL	0.5519 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

J. Le Carrou, et al. Antimicrob Agents Chemother. 2006 Jun; 50(6): 1959-1966.
Vouldoukis I, et al. Vet Parasitol, 2006, 135(2), 137-146.
Voermans M, et al. J Vet Pharmacol Ther, 2006, 29(6), 555-560.

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