Data Sheet (Cat.No.T8130)

TargetMol

Ciprofloxacin hydrochloride monohydrate

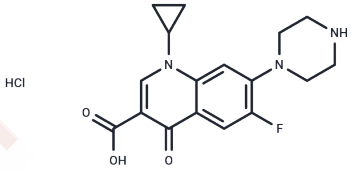
Chemical Properties

CAS No. : 86393-32-0

Formula: C17H21ClFN3O4

Molecular Weight: 385.82

Storage: Store under nitrogen,Store at low temperature
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	Ciprofloxacin hydrochloride monohydrate (Bay-09867 hydrochloride monohydrate) is a fluoroquinolone antibiotic,is an antibiotic used to treat a number of bacterial infections
Targets(IC50)	Apoptosis,Reactive Oxygen Species,Mitochondrial Metabolism,Antibacterial,Antibiotic, ROS,Topoisomerase

Solubility Information

Solubility	DMSO: 6.95 mg/mL (18.01 mM),Sonication is recommended. H2O: 10 mg/mL (25.92 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: 0.5 mg/mL (1.3 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5919 mL	12.9594 mL	25.9188 mL
5 mM	0.5184 mL	2.5919 mL	5.1838 mL
10 mM	0.2592 mL	1.2959 mL	2.5919 mL
50 mM	0.0518 mL	0.2592 mL	0.5184 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

Hamblin K A , Armstrong S J , Barnes K B , et al. Inhaled Liposomal Ciprofloxacin Protects against a Lethal Infection in a Murine Model of Pneumonic Plague[J]. Frontiers in Microbiology, 2017, 8.

Judith, Steenbergen, S, et al. In Vitro and In Vivo Activity of Omadacycline against Two Biothreat Pathogens, Bacillus anthracis and Yersinia pestis[J]. Antimicrobial Agents & Chemotherapy, 2017.

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