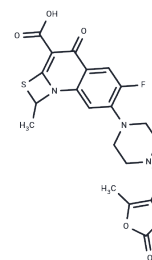


## Prulifloxacin

## Chemical Properties

CAS No. :	123447-62-1
Formula:	C <sub>21</sub> H <sub>20</sub> FN <sub>3</sub> O <sub>6</sub> S
Molecular Weight:	461.46
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	Prulifloxacin (NM441) is a broad-spectrum fluoroquinolone antibiotic. It inhibits bacterial DNA synthesis by inhibiting the activity of bacterial DNA topoisomerase II and IV.
Targets(IC50)	Antibacterial, Antibiotic, Topoisomerase

## Solubility Information

Solubility	H <sub>2</sub> O: Insoluble, DMSO: 2.31 mg/mL (5.01 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: 1 mg/mL (2.17 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	2.167 mL	10.8352 mL	21.6704 mL
5 mM	0.4334 mL	2.167 mL	4.3341 mL
10 mM	0.2167 mL	1.0835 mL	2.167 mL
50 mM	0.0433 mL	0.2167 mL	0.4334 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

Giannarini G, et al. Prulifloxacin: clinical studies of a broad-spectrum quinolone agent. Future Microbiol. 2009 Feb; 4(1):13-24.

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