

## Gemifloxacin mesylate

## Chemical Properties

CAS No. : 210353-53-0

Formula: C<sub>19</sub>H<sub>24</sub>FN<sub>5</sub>O<sub>7</sub>S

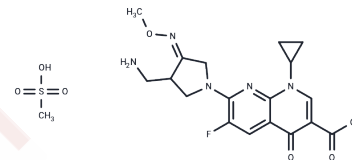
Molecular Weight: 485.49

Storage:

Keep away from direct sunlight, Keep away from moisture

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	Gemifloxacin mesylate (Gemifloxacin mesylate) inhibits activities of DNA gyrase and topoisomerase IV, thereby inhibiting DNA replication and eventually bacterial growth. Gemifloxacin Mesylate is the mesylate salt form of gemifloxacin, a synthetic broad-spectrum fluoroquinolone with antibacterial activity. This fluoroquinolone exerts an enhanced spectrum of activity against gram-positive bacteria such as Streptococcus pneumonia and Staphylococcus aureus, in addition to its activity against gram-negative bacteria.
Targets(IC50)	Antibacterial, Antibiotic, DNA gyrase, DNA/RNA Synthesis, Topoisomerase

## Solubility Information

Solubility	DMSO: 130 mg/mL (267.77 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: 2 mg/mL (4.12 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

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	1mg	5mg	10mg
1 mM	2.0598 mL	10.2989 mL	20.5977 mL
5 mM	0.412 mL	2.0598 mL	4.1195 mL
10 mM	0.206 mL	1.0299 mL	2.0598 mL
50 mM	0.0412 mL	0.206 mL	0.412 mL

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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

Ruiz J, et al. Int J Antimicrob Agents. 2003 Jul;22(1):73-6.

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