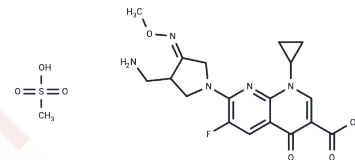


## Gemifloxacin mesylate

## 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
Appearance:	no data available
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## 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,DNA gyrase,Topoisomerase

## Solubility Information

Solubility	DMSO: 55 mg/mL (113.29 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	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

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.

## Reference

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

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