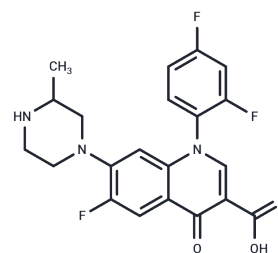


## Temafloracin

## Chemical Properties

CAS No. :	108319-06-8
Formula:	C <sub>21</sub> H <sub>18</sub> F <sub>3</sub> N <sub>3</sub> O <sub>3</sub>
Molecular Weight:	417.38
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	Temafloracin (Omniflox) is an antibiotic and antimycobacterial agent. It used to treat lower respiratory tract infections, genital and urinary infections like prostatitis, and skin infections.
Targets(IC50)	Antibacterial,Antibiotic
In vitro	Temafloracin has broad antimicrobial activity against gram-positive and gram-negative bacteria, including improved in vitro activity against?Streptococcus pneumoniae,? Mycoplasma hominis, and anaerobic bacteria, including?Bacteroides fragilis[1].
In vivo	Temafloracin has a half-life of 7-8 hours and rapid gastrointestinal absorption. Temafloracin has excellent tissue and body fluid penetration and concentration except for the central nervous system (CNS)[1].

## Solubility Information

Solubility	DMSO: Slightly soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3959 mL	11.9795 mL	23.959 mL
5 mM	0.4792 mL	2.3959 mL	4.7918 mL
10 mM	0.2396 mL	1.1979 mL	2.3959 mL
50 mM	0.0479 mL	0.2396 mL	0.4792 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

G A Pankey. Temafloxacin: an overview. Am J Med. 1991 Dec 30;91(6A):166S-172S.

Sprandel KA, Rodvold KA. Safety and tolerability of fluoroquinolones. Clin Cornerstone. 2003;Suppl 3:S29-36. Review. PubMed PMID: 14992418.

Ball P. Adverse drug reactions: implications for the development of fluoroquinolones. J Antimicrob Chemother. 2003 May;51 Suppl 1:21-7. Review. PubMed PMID: 12702700.

Archer JS, Archer DF. Oral contraceptive efficacy and antibiotic interaction: a myth debunked. J Am Acad Dermatol. 2002 Jun;46(6):917-23. Review. PubMed PMID: 12063491.

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