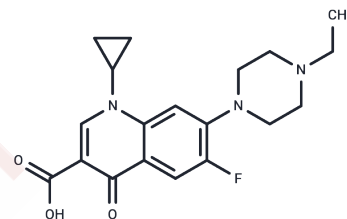


## Enrofloxacin

## Chemical Properties

CAS No. : 93106-60-6  
 Formula: C<sub>19</sub>H<sub>22</sub>FN<sub>3</sub>O<sub>3</sub>  
 Molecular Weight: 359.39  
 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	Enrofloxacin (BAY-Vp2674) is a veterinary antibacterial agent, used in poultry.
Targets(IC50)	Antibacterial,Antibiotic,DNA/RNA Synthesis
In vivo	Enrofloxacin exhibits broad-spectrum antibacterial activity against both Gram-negative and Gram-positive bacteria. It functions by inhibiting bacterial DNA gyrase (type II topoisomerase), thereby blocking DNA supercoiling and DNA synthesis.

## Solubility Information

Solubility	DMSO: 12 mg/mL (33.39 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 (2.78 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	2.7825 mL	13.9125 mL	27.8249 mL
5 mM	0.5565 mL	2.7825 mL	5.565 mL
10 mM	0.2782 mL	1.3912 mL	2.7825 mL
50 mM	0.0556 mL	0.2782 mL	0.5565 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

Qiu W, et al. Enrofloxacin Induces Intestinal Microbiota-Mediated Immunosuppression in Zebrafish. *Environ Sci Technol.* 2022 Jun 21;56(12):8428-8437.

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