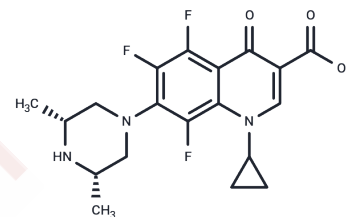


Orbifloxacin

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 113617-63-3 |
| Formula: | C ₁₉ H ₂₀ F ₃ N ₃ O ₃ |
| Molecular Weight: | 395.38 |
| 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 | Orbifloxacin (CP-104354) is a broad-spectrum fluoroquinolone antibiotic. |
| Targets(IC50) | Antibacterial, Antibiotic |
| In vivo | Orbifloxacin exhibits enhanced antibacterial activity against Enterobacteriaceae, both Gram-negative and Gram-positive bacteria, anaerobes, and actinobacteria. |

Solubility Information

| | |
|------------|--|
| Solubility | DMSO: 6 mg/mL (15.18 mM), Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.5292 mL | 12.6461 mL | 25.2921 mL |
| 5 mM | 0.5058 mL | 2.5292 mL | 5.0584 mL |
| 10 mM | 0.2529 mL | 1.2646 mL | 2.5292 mL |
| 50 mM | 0.0506 mL | 0.2529 mL | 0.5058 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

Ganière JP, et al. Res Vet Sci, 2004, 77(1), 67-71

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