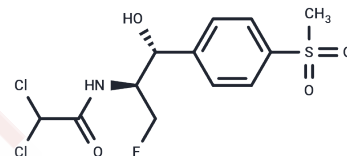


## Florfenicol

## Chemical Properties

|                   |                                                                    |
|-------------------|--------------------------------------------------------------------|
| CAS No. :         | 76639-94-6                                                         |
| Formula:          | C <sub>12</sub> H <sub>14</sub> Cl <sub>2</sub> FNO <sub>4</sub> S |
| Molecular Weight: | 358.21                                                             |
| Appearance:       | no data available                                                  |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year           |



## Biological Description

|               |                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description   | Florfenicol (Aquafen) is a fluorinated synthetic analog of thiamphenicol. In the United States, florfenicol is currently used to treat bovine respiratory disease (BRD) associated with Mannheimia (Pasteurella) haemolytica, Pasteurella multocida, and Haemophilus somnus, to treat bovine interdigital phlegmon associated with Fusobacterium necrophorum and Bacteroides melaninogenicus. |
| Targets(IC50) | Others                                                                                                                                                                                                                                                                                                                                                                                        |
| In vitro      | Florfenicol is found to stimulate algal growth at concentrations of 0.5, 1.0 and 2.0 mg/L, and significantly inhibit algal growth at >2.0 mg/L.                                                                                                                                                                                                                                               |

## Solubility Information

|            |                                                                                                                                                                                                                                                      |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Solubility | Ethanol: 8 mg/mL (22.33 mM), Sonication is recommended.<br>H <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble),<br>DMSO: 45 mg/mL (125.62 mM), Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 2.7917 mL | 13.9583 mL | 27.9166 mL |
| 5 mM  | 0.5583 mL | 2.7917 mL  | 5.5833 mL  |
| 10 mM | 0.2792 mL | 1.3958 mL  | 2.7917 mL  |
| 50 mM | 0.0558 mL | 0.2792 mL  | 0.5583 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

- Liu W, et al. Plant Physiol Biochem, 2012, 60, 165-170.  
Soto E, et al. J Fish Dis, 2013, 36(4), 411-418.

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