

Florfenicol

Chemical Properties

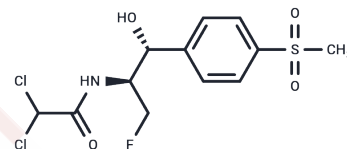
CAS No. : 73231-34-2

Formula: C₁₂H₁₄Cl₂FNO₄S

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 (SCH-25298), a fluorinated synthetic analog of thiamphenicol, is currently indicated for the therapy of bovine respiratory disease (BRD) associated with Mannheimia (Pasteurella) haemolytica, Haemophilus somnus, and Pasteurella multocida, for therapy of bovine interdigital phlegmon (foot rot, infectious pododermatitis, acute interdigital necrobacillosis) associated with Fusobacterium necrophorum and Bacteroides melaninogenicus. This compound is also used in aquaculture and is approved for use in the United States for the therapy of enteric septicemia in catfish.
Targets(IC50)	Antibacterial,Antibiotic
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.
In vivo	Florfenicol administers at doses of 15 and 20 mg FFC kg ⁽⁻¹⁾ bw per days for 10 days significantly reduces mortality associated with francisellosis in Nile tilapia.

Solubility Information

Solubility	DMSO: 50 mg/mL (139.58 mM),Sonication is recommended. Ethanol: 8 mg/mL (22.33 mM),Sonication is recommended. H2O: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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A DRUG SCREENING EXPERT

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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Tel: 781-999-4286 E_mail: info@targetmol.com Address: 36 Washington Street, Wellesley Hills, MA 02481