Florfenicol amine hydrochloride

Cat. No.: HY-118099

CAS No.: 108656-33-3

Molecular Formula: $C_{10}H_{15}ClFNO_3S$

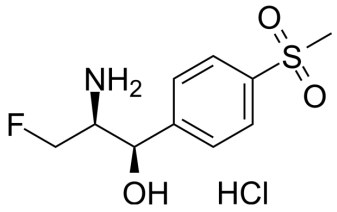
Molecular Weight: 283.75

Target: Drug Metabolite; Bacterial

Pathway: Metabolic Enzyme/Protease; Anti-infection

Storage: 4°C, sealed storage, away from moisture

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (440.53 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.5242 mL	17.6211 mL	35.2423 mL
	5 mM	0.7048 mL	3.5242 mL	7.0485 mL
	10 mM	0.3524 mL	1.7621 mL	3.5242 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (7.33 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (7.33 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (7.33 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Florfenicol amine hydrochloride is a metabolite of Florfenicol (HY-B1374). Florfenicol inhibits bacterial protein synthesis by binding to 50S and 70S subunits in the ribosome to abolish the activity of peptidyltransferase. Florfenicol, is a veterinary antibiotic, can be used in aquaculture to control susceptible bacterial diseases[1][2].

REFERENCES

[1]. B-K Park, et al. Pharmacokinetics of florfenicol and its metabolite, florfenicol amine, in the Korean catfish (Silurus asotus). J Vet Pharmacol Ther. 2006 Feb;29(1):37-40.

[2]. Anadón A, et al. Plasma and tissue depletion of florfenicol and florfenicol-amine in chickens. J Agric Food Chem. 2008 Nov 26;56(22):11049-56.

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