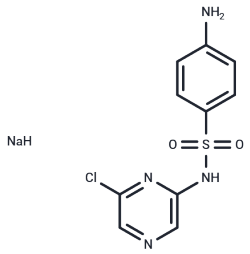
Data Sheet (Cat.No.T16953)

TargetMol

Sulfaclozine sodium

Chemical Properties



CAS No. : 23307-72-4

Formula: C10H9ClN4NaO2S

Molecular Weight: 307.71

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	Sulfaclozine sodium is an efficacious sulphonamide derivative with antibacterial and anticoccidial effects. Sulfaclozine sodium is commonly used for the treatment of various poultry diseases.
Targets(IC50)	Antibacterial,Antibiotic,Parasite
In vitro	Sulfaclozine is weakly adsorbed on the surface of TiO2 at pH 7 (< 5%) but efficiently eliminated with the following three systems: UV/TiO2, UV/K2S2O8, and UV/TiO2/K2S2O8 in ultra pure water [2].
In vivo	Sulfaclozine (60 mg/kg; intravenous injection or p.o.; male broiler chickens) is primarily used to treat parasitic and microbial infections of the digestive tract [1].

Solubility Information

Solubility	H2O: 50 mg/mL (162.49 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2498 mL	16.2491 mL	32.4981 mL
5 mM	0.650 mL	3.2498 mL	6.4996 mL
10 mM	0.325 mL	1.6249 mL	3.2498 mL
50 mM	0.065 mL	0.325 mL	0.650 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

Sentepe I, et al. Pharmacokinetic of sulfaclozine in broiler chickens. Food Chem Toxicol. 2010 Jan;48(1):448-451.
Ismail L, et al. Effect of water constituents on the degradation of sulfaclozine in the three systems: UV/TiO2, UV/K2S2O8, and UV/TiO2/K2S2O8. Environ Sci Pollut Res Int. 2018 Jan;25(3):2651-2663.

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