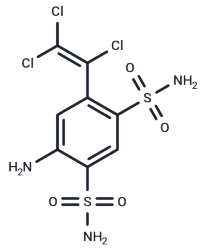
Data Sheet (Cat.No.T1137)

TargetMol

Clorsulon

Chemical Properties



CAS No. : 60200-06-8

Formula: C8H8Cl3N3O4S2

Molecular Weight: 380.66

Storage: Keep away from direct sunlight,Store under nitrogen
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	Clorsulon (L631529) is utilized for the treatment of Fasciola hepatica infections in calves and sheep.
Targets(IC50)	ATPase,Antibiotic,Parasite
In vitro	In sheep and calves, a single administration of Clorsulon (15 mg/kg) effectively induces damage to the cortical and intestinal tissues of the liver flukes, thereby expelling immature liver flukes from the host organism.
In vivo	Clorsulon is a competitive inhibitor (Ki=0.29 mM) of both 3-phosphoglycerate and ATP, capable of suppressing glucose utilization and the formation of acetate and propionate.

Solubility Information

Solubility	Ethanol: 7 mg/mL (18.39 mM),Sonication is recommended. H2O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 71 mg/mL (186.52 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.25 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.627 mL	13.1351 mL	26.2702 mL
5 mM	0.5254 mL	2.627 mL	5.254 mL
10 mM	0.2627 mL	1.3135 mL	2.627 mL
50 mM	0.0525 mL	0.2627 mL	0.5254 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

Mrozik H, et al. J Med Chem, 1977, 20(9), 1225-1227.
Schulman MD, et al. Mol Biochem Parasitol, 1982, (3), 133-145.
Meaney M, et al. Parasitol Res, 2004, 92(3), 232-241.