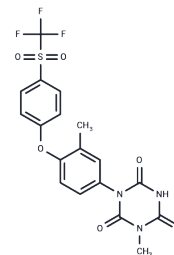


Toltrazuril (sulfone)

Chemical Properties

CAS No. : 69004-04-2
Formula: C₁₈H₁₄F₃N₃O₆S
Molecular Weight: 457.38
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	Toltrazuril sulfone (Ponazuril) is an antiprotozoal agent that acts upon Coccidia parasites.
Targets(IC50)	Parasite
In vivo	Afloqualone slightly increased the response during the alarm period in one out of 3 rats at 5, 10, and 20 mg/kg p.o., respectively.

Solubility Information

Solubility	DMSO: 50 mg/mL (109.32 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 (4.37 mM),Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1864 mL	10.9318 mL	21.8637 mL
5 mM	0.4373 mL	2.1864 mL	4.3727 mL
10 mM	0.2186 mL	1.0932 mL	2.1864 mL
50 mM	0.0437 mL	0.2186 mL	0.4373 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

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- Pharmacokinetics of ponazuril after oral administration to healthy llamas (Lama glama) By Prado, Maria E.; Ryman, Josiah T.; Boileau, Melanie J.; Martin-Jimenez, Tomas; Meibohm, Bernd *From American Journal of Veterinary Research* (2011), 72(10), 1386-1389

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