

Sarolaner

Chemical Properties

CAS No. : 1398609-39-6

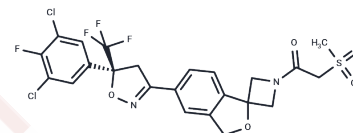
Formula: C₂₃H₁₈Cl₂F₄N₂O₅S

Molecular Weight: 581.36

Keep away from moisture

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	Sarolaner (PF-6450567) is an orally active, broad-spectrum ectoparasiticide with an LC ₈₀ of 0.3 µg/mL against <i>C. felis</i> and an LC ₁₀₀ of 0.003 µg/mL against <i>O. turicata</i> .
Targets(IC ₅₀)	Parasite

Solubility Information

Solubility	DMSO: 125 mg/mL (215.01 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 10 mg/mL (17.2 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (17.2 mM), Solution. <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	1.7201 mL	8.6005 mL	17.201 mL
5 mM	0.344 mL	1.7201 mL	3.4402 mL
10 mM	0.172 mL	0.8601 mL	1.7201 mL
50 mM	0.0344 mL	0.172 mL	0.344 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

McTier TL, et al. Discovery of sarolaner: A novel, orally administered, broad-spectrum, isoxazoline ectoparasiticide for dogs. Vet Parasitol. 2016 May 30;222:3-11.

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