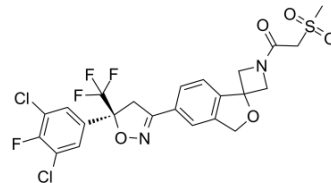


Sarolaner

Cat. No.:	HY-16730
CAS No.:	1398609-39-6
Molecular Formula:	C ₂₃ H ₁₈ Cl ₂ F ₄ N ₂ O ₅ S
Molecular Weight:	581.36
Target:	Parasite
Pathway:	Anti-infection
Storage:	4°C, sealed storage, away from moisture



SOLVENT & SOLUBILITY

In Vitro

DMSO : 150 mg/mL (258.02 mM; Need ultrasonic)
 H₂O : < 0.1 mg/mL (insoluble)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.7201 mL	8.6005 mL	17.2010 mL
	5 mM	0.3440 mL	1.7201 mL	3.4402 mL
	10 mM	0.1720 mL	0.8601 mL	1.7201 mL

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

In Vivo

- Add each solvent one by one: **10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline**
 Solubility: ≥ 2.5 mg/mL (4.30 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 90% corn oil**
 Solubility: ≥ 2.5 mg/mL (4.30 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Sarolaner (PF-6450567) is an orally active, broad-spectrum ectoparasiticide, has efficacy against fleas and ticks on dogs, with LC₈₀ of 0.3 µg/mL against *C. felis* and an LC₁₀₀ of 0.003 µg/mL against *O. turicata*^[1].

IC₅₀ & Target

LC₈₀: 0.3 µg/mL (*C. felis*)^[1]
 LC₁₀₀: 0.003 µg/mL (*O. turicata*)^[1]

REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA