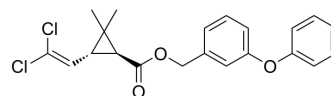


trans-Permethrin

Cat. No.:	HY-W588212		
CAS No.:	61949-77-7		
Molecular Formula:	C ₂₁ H ₂₀ Cl ₂ O ₃		
Molecular Weight:	391.29		
Target:	Parasite		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (255.56 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.5556 mL	12.7782 mL	25.5565 mL
5 mM	0.5111 mL	2.5556 mL	5.1113 mL
10 mM	0.2556 mL	1.2778 mL	2.5556 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 (6.39 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (6.39 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

trans-Permethrin is a transconfiguration of Permethrin (HY-B0887). Permethrin is an insecticide and neurotoxin^[1].

REFERENCES

- [1]. Xiao X, et al. Exposure to permethrin promotes high fat diet-induced weight gain and insulin resistance in male C57BL/6J mice. *Food Chem Toxicol.* 2018 Jan;111:405-416.
- [2]. Smith LB, et al. CYP-mediated permethrin resistance in *Aedes aegypti* and evidence for trans-regulation. *PLoS Negl Trop Dis.* 2018 Nov 19;12(11):e0006933.

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

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