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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

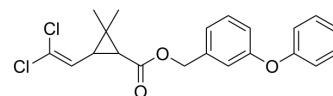
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Permethrin

Cat. No.:	HY-B0887
CAS No.:	52645-53-1
Molecular Formula:	C ₂₁ H ₂₀ Cl ₂ O ₃
Molecular Weight:	391.29
Target:	Parasite
Pathway:	Anti-infection
Storage:	Pure form -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (127.78 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent 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	1. 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					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (6.39 mM); Suspended solution; Need ultrasonic					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.39 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Permethrin (NRDC-143) is an insecticide, acaricide, and insect repellent; functions as a neurotoxin, affecting neuron membranes by prolonging sodium channel activation.
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CUSTOMER VALIDATION

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- Brain Behav Immun. 2021 Jul 29;S0889-1591(21)00279-8.

See more customer validations on www.MedChemExpress.com

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.
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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