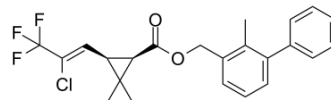


Bifenthrin

Cat. No.:	HY-B0824
CAS No.:	82657-04-3
Molecular Formula:	C ₂₃ H ₂₂ ClF ₃ O ₂
Molecular Weight:	422.87
Target:	Sodium Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (236.48 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.3648 mL	11.8240 mL	23.6479 mL
				5 mM	0.4730 mL	2.3648 mL	4.7296 mL
				10 mM	0.2365 mL	1.1824 mL	2.3648 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 (5.91 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.91 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	Bifenthrin is a synthetic pyrethroid insecticide that prolongs opening of sodium channels resulting in membrane depolarization and conductance block in the insect nervous system. Bifenthrin is effective against <i>A. gambiae</i> and <i>C. quinquefasciatus</i> mosquitos (LD ₅₀ s = 0.15 and 0.16 ng/mg, respectively) and increases <i>O. insidiosus</i> mortality in treated corn and sorghum plants.
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Caution: Product has not been fully validated for medical applications. For research use only.

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