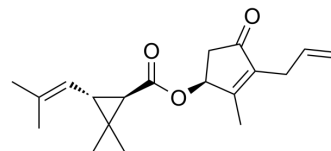


S-Bioallethrin

Cat. No.:	HY-122376		
CAS No.:	28434-00-6		
Molecular Formula:	C ₁₉ H ₂₆ O ₃		
Molecular Weight:	302.41		
Target:	Sodium Channel		
Pathway:	Membrane Transporter/Ion Channel		
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 : 100 mg/mL (330.68 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.3068 mL	16.5338 mL	33.0677 mL
		5 mM	0.6614 mL	3.3068 mL	6.6135 mL
10 mM		0.3307 mL	1.6534 mL	3.3068 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (8.27 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (8.27 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (8.27 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	S-Bioallethrin is a pyrethroid insecticide. S-Bioallethrin disrupts nerve function by modifying the gating kinetics of transitions between the conducting and nonconducting states of voltage-gated sodium channels ^[1] .
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REFERENCES

[1]. McCavera SJ, et al. Differential state-dependent modification of inactivation-deficient Nav1.6 sodium channels by the pyrethroid insecticides S-bioallethrin, tefluthrin and deltamethrin. *Neurotoxicology*. 2012;33(3):384-390.

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

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