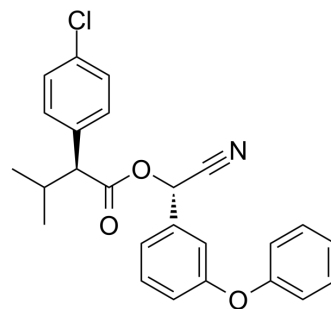


Esfenvalerate

Cat. No.:	HY-129257		
CAS No.:	66230-04-4		
Molecular Formula:	C ₂₅ H ₂₂ ClNO ₃		
Molecular Weight:	419.9		
Target:	Others		
Pathway:	Others		
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 (238.15 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.3815 mL	11.9076 mL	23.8152 mL
		5 mM	0.4763 mL	2.3815 mL	4.7630 mL
10 mM		0.2382 mL	1.1908 mL	2.3815 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 (5.95 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (5.95 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.95 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Esfenvalerate is one of the four isomers of the pyrethroid insecticide fenvalerate ^[1] .
In Vivo	<p>Esfenvalerate (0.1, 1, 7.5 or 15 mg/kg/day; gavage; from gestation day (GD) 13 to 19) shows clinical signs of neurotoxicity with 15 mg/kg/day^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Anne-Marie Saillenfait, et al. The Pyrethroid Insecticides Permethrin and Esfenvalerate Do Not Disrupt Testicular Steroidogenesis in the Rat Fetus. *Toxicology*. 2018 Dec 1;410:116-124.

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

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