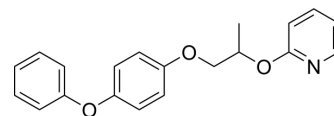


## Pyriproxyfen

Cat. No.:	HY-B2031		
CAS No.:	95737-68-1		
Molecular Formula:	C <sub>20</sub> H <sub>19</sub> NO <sub>3</sub>		
Molecular Weight:	321.37		
Target:	Autophagy; Parasite		
Pathway:	Autophagy; Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 100 mg/mL (311.17 mM)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.1117 mL	15.5584 mL	31.1168 mL
	5 mM	0.6223 mL	3.1117 mL	6.2234 mL
	10 mM	0.3112 mL	1.5558 mL	3.1117 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 (7.78 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
 Solubility: ≥ 2.5 mg/mL (7.78 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Pyriproxyfen is a juvenile hormone analog, preventing larvae from developing into adulthood and thus rendering them unable to reproduce. Pyriproxyfen is a pyridine-based pesticide which is found to be effective against a variety of arthropoda.

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

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