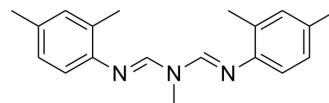


## Amitraz

<b>Cat. No.:</b>	HY-B1111		
<b>CAS No.:</b>	33089-61-1		
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>23</sub> N <sub>3</sub>		
<b>Molecular Weight:</b>	293.41		
<b>Target:</b>	Adrenergic Receptor; Monoamine Oxidase; Parasite		
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling; Anti-infection		
<b>Storage:</b>	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 (340.82 mM; Need ultrasonic)  
 H<sub>2</sub>O : < 0.1 mg/mL (insoluble)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.4082 mL	17.0410 mL	34.0820 mL
	5 mM	0.6816 mL	3.4082 mL	6.8164 mL
	10 mM	0.3408 mL	1.7041 mL	3.4082 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 (8.52 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
 Solubility: 2.5 mg/mL (8.52 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
 Solubility: ≥ 2.5 mg/mL (8.52 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Amitraz is a non-systemic acaricide and insecticide, with alpha-adrenergic agonist activity, interaction with octopamine receptors of the central nervous system and inhibition of monoamine oxidases and prostaglandin synthesis.

#### IC<sub>50</sub> & Target

Mite

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

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