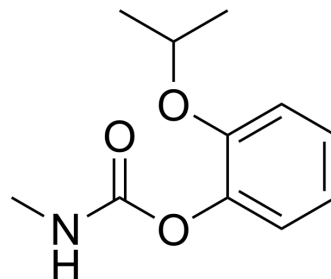


## Propoxur

<b>Cat. No.:</b>	HY-B0916		
<b>CAS No.:</b>	114-26-1		
<b>Molecular Formula:</b>	C <sub>11</sub> H <sub>15</sub> NO <sub>3</sub>		
<b>Molecular Weight:</b>	209.24		
<b>Target:</b>	Fungal		
<b>Pathway:</b>	Anti-infection		
<b>Storage:</b>	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 (477.92 mM)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	4.7792 mL	23.8960 mL	47.7920 mL
	5 mM	0.9558 mL	4.7792 mL	9.5584 mL
	10 mM	0.4779 mL	2.3896 mL	4.7792 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: ≥ 2.08 mg/mL (9.94 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
 Solubility: ≥ 2.08 mg/mL (9.94 mM); Suspended solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
 Solubility: ≥ 2.08 mg/mL (9.94 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Propoxur is a carbamate insecticide with a fast knockdown and long residual effect used against turf, forestry, and household pests and fleas.

### REFERENCES

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[1]. Shi Y, et al. Propoxur enhances MMP-2 expression and the corresponding invasion of human breast cancer cells via the ERK/Nrf2 signaling pathway. *Oncotarget*. 2017 Jul 7;8(50):87107-87123.

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

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