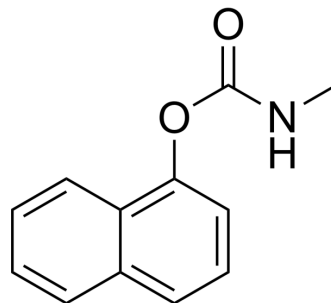


## Carbaryl

<b>Cat. No.:</b>	HY-B1315		
<b>CAS No.:</b>	63-25-2		
<b>Molecular Formula:</b>	C <sub>12</sub> H <sub>11</sub> NO <sub>2</sub>		
<b>Molecular Weight:</b>	201.22		
<b>Target:</b>	Parasite		
<b>Pathway:</b>	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 (496.97 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.9697 mL	24.8484 mL	49.6968 mL
	5 mM	0.9939 mL	4.9697 mL	9.9394 mL
	10 mM	0.4970 mL	2.4848 mL	4.9697 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 (12.42 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (12.42 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (12.42 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Carbaryl is used chiefly as an insecticide<sup>[1]</sup>.

### REFERENCES

[1]. Nancy E Todd, et al. Effects of Sevin (Carbaryl Insecticide) on Early Life Stages of Zebrafish (Danio Rerio). Ecotoxicol Environ Saf. 2002 Oct;53(2):267-72.

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

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